Quality Control
Products & Services Catalog

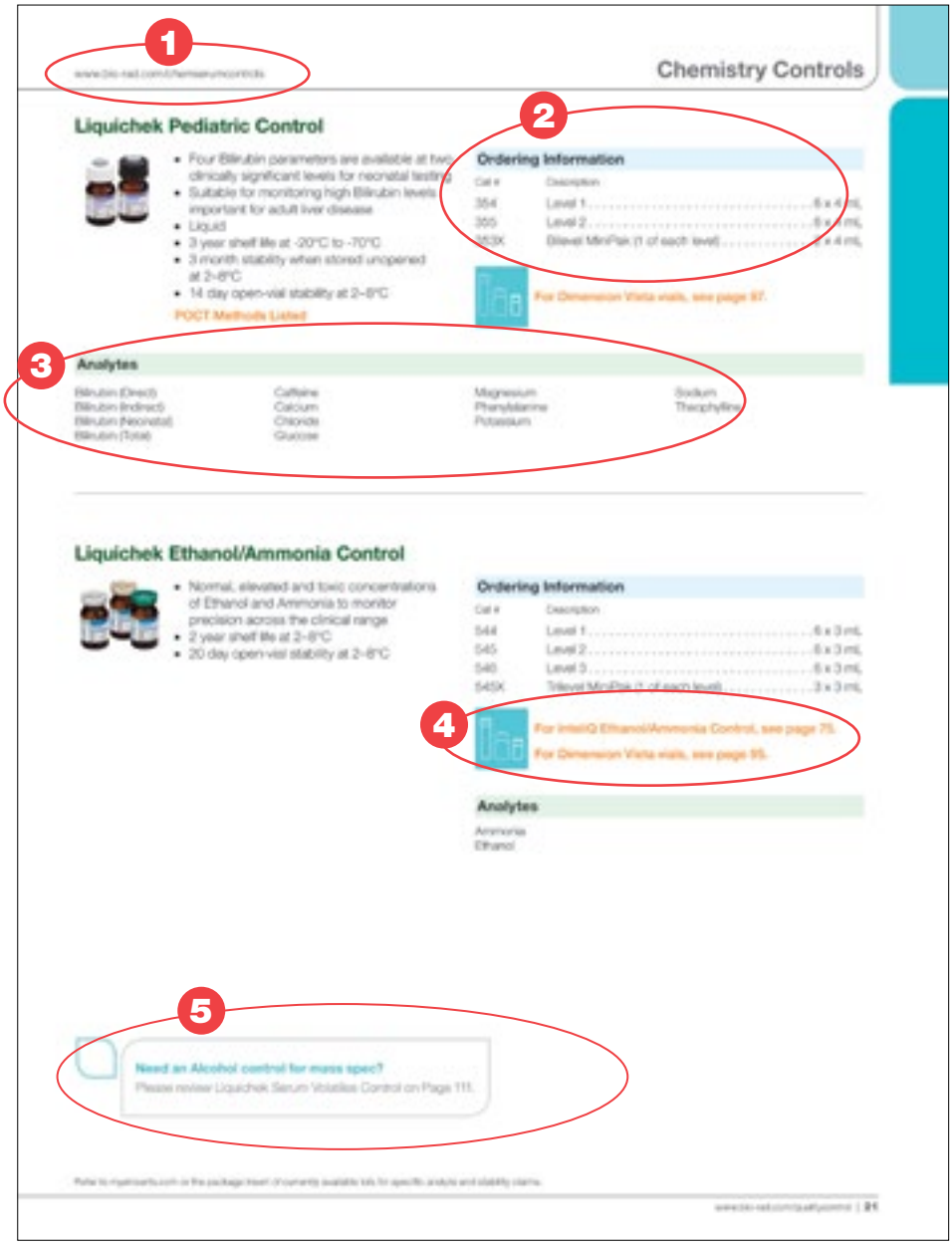
BIO-RAD

Catalog Product Pages at a Glance

Product pages are designed to make it easier to find the information you need in the QC Products and Services Catalog.

Features in this edition include:

1. **Family URLs** are listed at the top of every page to help you find content at bio-rad.com on a specific product family.
2. **Ordering Information** is identified by a blue bar.
3. **Analyte Lists** are identified by a green bar.
4. **Packaging Configuration Options** are identified directly below the product ordering information.
5. **Tips and References** to helpful information can be found throughout the catalog.



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Powering Exceptional Labs

Bio-Rad harnesses independent QC to take your lab to the next level, so you can stand behind your results, minimize risk and costly errors, and improve your workflow to power exceptional performance for your laboratory.

We offer high-quality materials, insightful informatics systems and renowned customer support, including staff training, lot reservation and technical expertise. We go beyond just monitoring precision to help you improve performance in your laboratory. We demand and invest in quality–because the patients deserve nothing less.

Quality control isn't just. . .

A cost.

It's an **investment.**

A task.

It's a **practice.**

Something you do.

It's **everything you do.**

QCNet – The Leading QC Portal on the Internet

Learn more about the many QC tools and resources from Bio-Rad at www.QCNet.com

Unity Interlaboratory Reports

- Access your monthly Unity and InstantQC Reports in just a few quick clicks

QCNet International

- Visit your local QCNet portal to obtain specific information related to your country (where available)

Additional Online Tools

- Access to EQAS services
- Linearity Web
- eInserts XML
- My eInserts
- Barcode Label Generator
- Urinalysis Tools
- SDS
- Code Lists for Unity

Experience the Convenience of Electronic Inserts On-demand. Visit myeinserts.com today.

Don't spend another minute tracking down your data through printed inserts. View it online with My eInserts

Customize Your QC Inserts

- Find instruments and methods quickly
- Select analytes of interest
- Choose the preferred units to be displayed on your data charts

Save Your Selections

- View, print or edit at any time
- Simply duplicate your selection to add a new lot of quality control product

Receive Prompt Email Notifications

- Register to receive automatic email notifications for insert data updates
- Only receive updates that apply to your selected instruments or methods

Work Smarter & Easier

- Fast, easy Internet access to the most current QC values
- Available in over 25 languages
- Large font sizes for easy readability
- Environmentally friendly with less wasted paper

Access Bio-Rad product literature online

For more detailed product information, visit our websites

QCNet.com–Click on the Product Sheets link in the Documents and Resources panel on the home page for access to all Quality Control literature.

bio-rad.com–Click on the Documents tab for a list of literature related to the specific product or product family.

QCNet.com

bio-rad.com

EQAS Resources on QCNet.com

Use the EQAS tab for quick access to program essentials

Access program information, product inserts and user documentation through www.QCNet.com. This secure website allows registered participants access to training material, customer notifications and provides the ability to submit results with EQAS Online and view or print EQAS reports.

Quality Control values listed for Point of Care Instruments

Visit qcnet.com for more information

- Consolidate with one QC vendor
- Assigned values generated on POC Instruments are listed for select products
- Efficiently oversee and monitor QC with Unity QC Data Management Solutions
- Expand your education options with basic QC videos, case studies, and POCT related webinars

Support for Bio-Rad controls and software products does not end after you receive your products

These support groups are available to help you with your questions and needs.

By Phone within the U.S.

1-800-854-6737
Monday – Friday
5:00 AM to 5:00 PM
Pacific time (PT)

By Fax

1-949-598-1531

Quality Controls Technical Support

When you purchase control products from Bio-Rad, you receive the backing of a full-service Technical Support Department. Bio-Rad Technical Service Representatives are trained to handle your inquiries in a prompt, knowledgeable and professional manner.

Unity and EQAS Program Support

The QC Program Department at Bio-Rad offers you expert technical support and information for all Unity and EQAS reports. Our QC Program staff answers inquiries about the Unity Interlaboratory Progam, QCNet enrollments, as well as EQAS enrollments, submission of data and cycle dates.

Additional benefits are provided with continuing education seminar programs in Basic Statistics of Quality Control. This is a worldwide program and in the United States, P.A.C.E. accreditation may be obtained. Contact your local Bio-Rad office for more information on continuing education programs.

Software and Connectivity Support

The Software and Connectivity Support Department is dedicated to helping your laboratory get up and running with the latest QC data management and connectivity solutions from Bio-Rad. With the help of our experts, we'll make sure your laboratory is able to capture, analyze and submit QC data successfully.

For Worldwide Customers

For service outside the United States, please refer to the inside back cover for the Bio-Rad location nearest you.

Education

Bio-Rad offers the educational tools and resources for tomorrow's QC experts

Bio-Rad Path to Quality 6

Online Educational Resources 7

Live Training from Bio-Rad 8

Did You Know?

- **Our YouTube Channel** offers over 100 videos on a variety of educational topics; visit youtube.com/bioradqc

Please note that not all products may be available in all countries.

Bio-Rad Offers the Educational Tools and Resources for Tomorrow's QC Experts

Bio-Rad Laboratories has served clinical laboratories for over 35 years. Our commitment to improving patient care has made us a leader in laboratory quality control. And because leadership has its responsibilities, we are committed to providing you with the educational tools to help you produce reliable test results. That's why we continue to invest in webinars, regional and international educational events/workshops, and online training and education.

Whether you seek to begin with the fundamentals of QC theory, to continue building on the foundations of an existing program, or to develop advanced capabilities through leading-edge QC design, Bio-Rad has the educational tools and resources you need to succeed.

Visit our Education page at QCNet.com to learn more about our online training materials, videos and live customized training opportunities. You can view continuing education information and QC events along with an ever growing list of training materials in a variety of media to fit your learning style.

Bio-Rad Path to Quality – Become a Quality Expert

Level 1 Fundamentals

Establish a strong foundation for basic laboratory quality practices

- Basic QC Theory and Statistics
- QC and Risk Management Principles
- EQA and PT Programs
- QC and Interlaboratory Programs

Level 2 Practical Application

Apply theoretical knowledge and introduce new practices

- Understanding Levey-Jennings
- Practical Use of Statistics
- QC Troubleshooting

Level 3 Accreditation and Compliance

Reach your accreditation and compliance goals; reinforce your commitment to Quality

- CLIA Compliance
- Accreditation Requirements, CAP, TJC, and COLA
- Seeking Laboratory Accreditation Under ISO 15189
- Preparing for an Accreditation Audit

Level 4 Advanced QC Tools

Go beyond QC fundamentals and build on the informative power of statistical QC

- Interlaboratory Reports
- Meaningful QC Rule selection
- Quality Goals

Level 5 Quality Expert!

Advance Quality practices to the cutting edge using state-of-the-art QC theory and applications

- Statistical QC Design Theory
- Quality Indicators
- Traceability and Uncertainty
- Risk Based QC Planning

Online Educational Resources from Bio-Rad

Visit the Education tab on QCNet.com for access to innovative training tools

Bio-Rad continues to develop a growing library of educational materials for laboratories that are committed to achieving a higher standard of laboratory quality for improved patient care. ***Check back often for updates.***

1. Online Product Videos

Need information on how to perform a specific task? Video playlists provide instructions for common activities.

2. Bio-Rad Software User Guides

Complete user and reference guides for Bio-Rad software solutions. Each guide contains basic QC information, setup and configuration details and instructions for use.

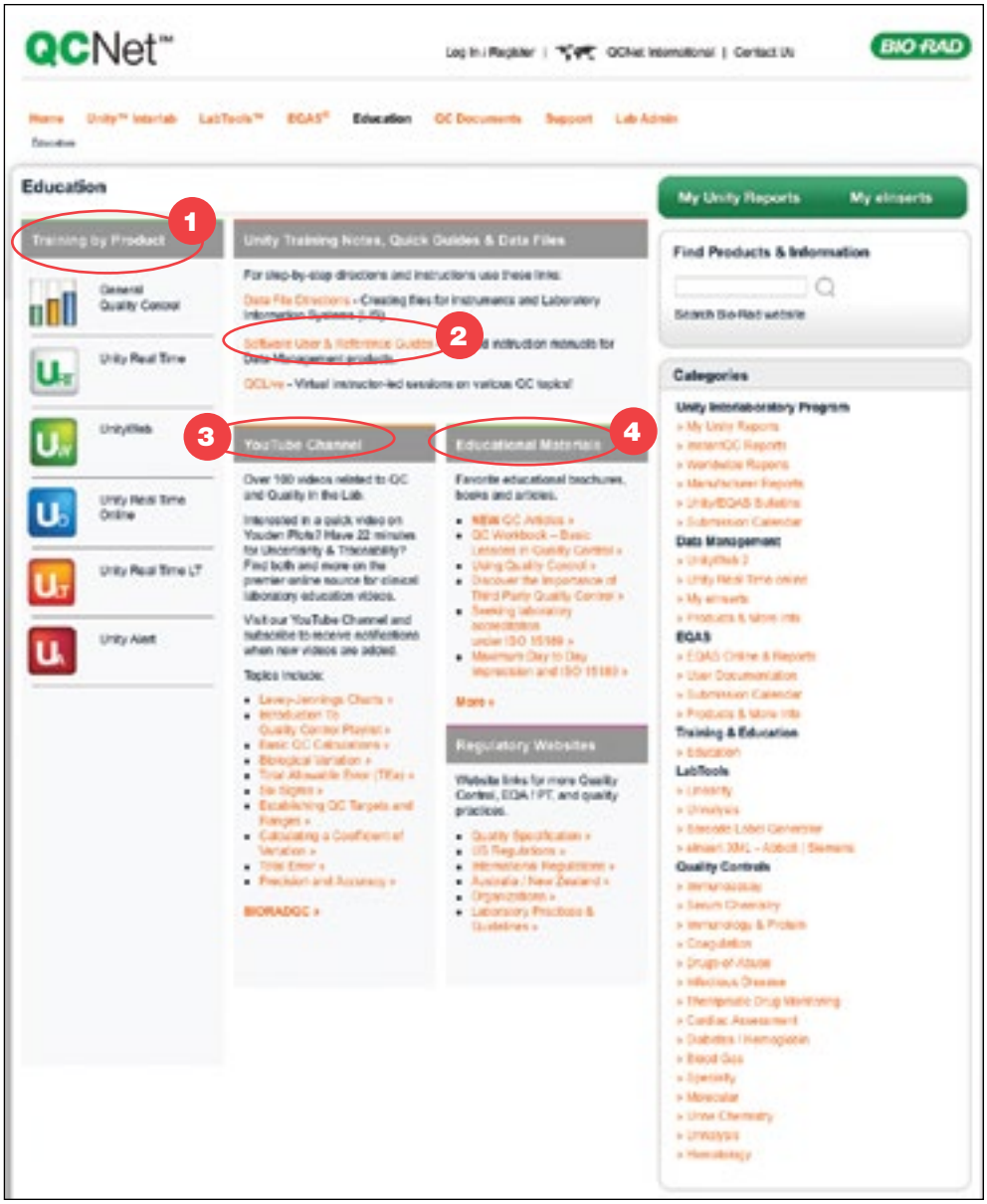
3. YouTube Channel

Our YouTube Channel has over 100 videos on a variety of topics. Videos are grouped into categories called 'Playlists' such as "Bio-Rad Unity Real Time Online", or quality control topics. Each playlist contains short videos, 2-8 minutes in length, designed to help you remember how to use or learn a new feature.

youtube.com/bioradqc

4. Links to Important Resources

Access brochures, articles, and links to regulatory websites from around the globe.



Actual website will vary by country and as new materials are added.

Live Training from Bio-Rad

QC Live

Online, highly interactive sessions with a Bio-Rad instructor in a less formal structure.

- Discover better ways to evaluate QC
- Improve software understanding
- Talk to experts

Customized, Instructor Led Training

Software training led by Bio-Rad technical trainers. Ideal for new users and those wanting to improve efficiency by using more functions and features of Bio-Rad software. Most courses offer P.A.C.E. credits.

Courses include, but are not limited to:

- **Unity Reports**
- **Unity Real Time 2.0 Bench Review**
  - How to check and document your daily QC data
- **Unity Real Time 2.0 Basic**
  - How to configure lots, test, rules, means and SDs
  - How to enter and submit your data to the Unity Interlaboratory Program
- **Unity Real Time 2.0 Advanced**
  - Reports, charts, Data Analysis Grid, Analytical Goals
- **UnityWeb 2.0**
  - Configuring the software, entering the data and submitting to the Unity Interlaboratory Program

For more information about our live training sessions, contact your Bio-Rad sales representative.

Blood Gas Controls

For blood gas analyzers with an expanded menu – electrolytes, glucose and lactate

Blood Gas Controls

Liquichek Blood Gas Control 10

Liquichek Blood Gas Plus E Control 10

Liquichek Blood Gas Plus EGL Control 11

Additional Information

Controls for Popular Instruments Chart 12

Did You Know?

- Bio-Rad offers aqueous controls for daily QC with the option of being stored at room temperature (up to 25ºC)

For More Information

- www.bio-rad.com/bloodgascontrols

Please note that not all products may be available in all countries.

Liquichek Blood Gas Control

- Available in three distinct levels with values targeted at varying points within the clinical range
- Color coded matrix for easy identification
- Aqueous based matrix
- 4 year shelf life at 18–25ºC
- Once opened, all analytes should be sampled immediately

POCT Methods Listed

Ordering Information

Cat #	Description	
571	Level 1	30 x 1.7 mL
572	Level 2	30 x 1.7 mL
573	Level 3	30 x 1.7 mL
570X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL

Analytes

pCO_2
pH
pO_2

Liquichek Blood Gas Plus E Control

- Designed to monitor precision of laboratory measurements on Blood Gas and Ion Selective Electrode (ISE) instrumentation
- Clear aqueous matrix
- 4 year shelf life at 2–25ºC
- Once opened, pH and Blood Gas should be sampled immediately
- When used for Electrolytes only, product should be sampled within 10 minutes

POCT Methods Listed

Ordering Information

Cat #	Description	
576	Level 1	30 x 1.7 mL
577	Level 2	30 x 1.7 mL
578	Level 3	30 x 1.7 mL
575X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL

Analytes

Calcium (Ionized)
Chloride
pCO_2
pH
pO_2
Potassium
Sodium

Did you know. . .

Bio-Rad's Blood Gas Controls list assigned values for several near patient/point of care devices. Visit **qcnet.com** for more information.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Blood Gas Plus EGL Control

- Expanded test menu including pH, Blood Gas, Electrolytes and Metabolites
- Aqueous, clear matrix
- 3 year shelf life at 2–8°C
- Can be stored for up to 12 months at 20–25°C
- Once opened, pH and Blood Gas should be sampled immediately
- When used for Electrolytes or Glucose/Lactate/Magnesium measurements, product should be sampled within 10 minutes

POCT Methods Listed

Ordering Information

Cat #	Description	
511	Level 1	30 x 1.7 mL
512	Level 2	30 x 1.7 mL
513	Level 3	30 x 1.7 mL
510X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL

Analytes

Calcium (Ionized)
Chloride
Glucose
Lactate (Lactic Acid)
Lithium
Magnesium
pCO_2
pH
pO_2
Potassium
Sodium

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

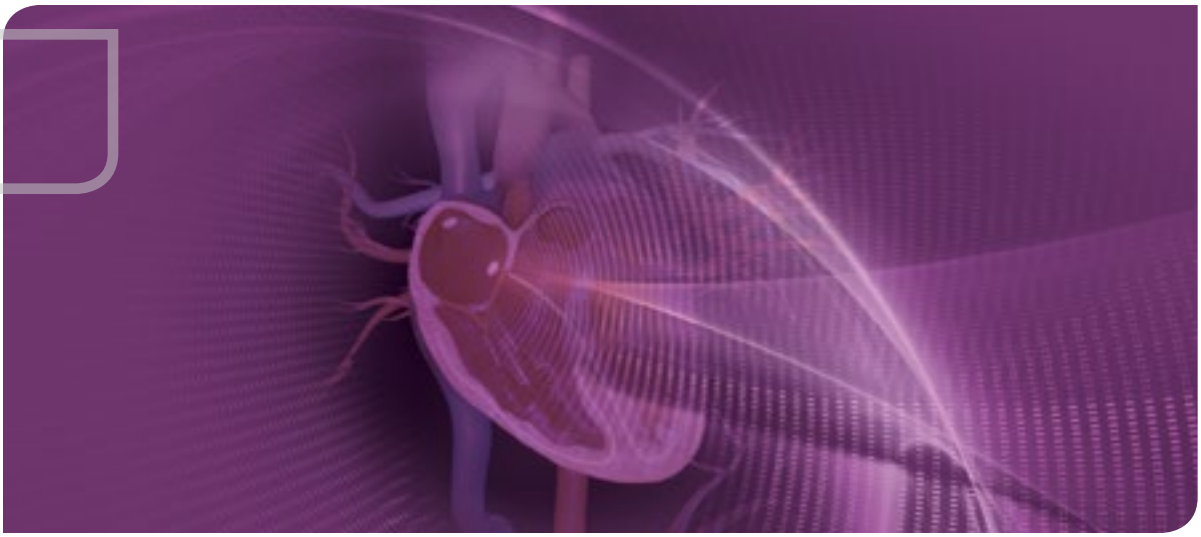
Use Bio-Rad's Blood Gas Controls on these popular instruments

Manufacturer/Instrument(s)	Blood Gas	Blood Gas Plus E	Blood Gas Plus EGL
ESCHWEILER			
Combiline	●	●	●
Combisys II	●	●	●
Ecolyte		●	●
Ecosys II	●	●	●
Modular Pro	●	●	●
Instrumentation Laboratory			
IL943			●
IL1610/1620	●	●	●
IL1630/1640/1650		●	●
IL GEM PREMIER	●	●	●
Nova Biomedical			
Stat Profile 1/2		●	●
Stat Profile 3	●	●	●
Stat Profile 4/5		●	●
Nova Stat Profile 6			●
Stat Profile 7/9/10			●
Nova 8/Stat Profile Ultra			●
Nova pHOx	●	●	
Radiometer			
ABL 5	●	●	●
ABL 50		●	●
ABL 80 Series		●	
ABL 500/510/520	●	●	●
ABL 505		●	●
ABL 600	●	●	
ABL 610/620	●		
ABL 700 Series	●	●	
ABL 800 Series	●	●	
Roche Diagnostics			
AVL Compact Series	●	●	
AVL OMNI	●	●	
Cobas b 121		●	
Siemens			
238/248	●	●	●
348		●	
614/634/644		●	●
800 Series	●	●	●
RAPIDLab 1200		●	
Other			
POCT Methods	●	●	●

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**



Cardiac Assessment Controls

Helping laboratories address the growing complexity of measuring multiple Cardiac Markers at increasingly sensitive levels

Cardiac Assessment Controls

Liquichek Cardiac Markers Plus Control LT 14

Liquichek Cardiac Troponins Control 14

Liquichek Cardiac Markers Plus Control 15

Liquichek Cardiac Markers Control LT 15

Liquichek CK/LD Isoenzyme Control 15

Liquichek Homocysteine Control 16

Additional Information

Controls for Popular Instruments Chart 16

See Also

- **Page 27** for Liquichek D-dimer Control
- **Pages 73-78** InteliQ Quality Control Products
- **Page 94** for Liquichek Cardiac Markers Plus Control LT in Dimension Vista vials

Did You Know?

- **Troponin I** (TnI) values are not standardized and the critical 99th-percentile upper reference limit is assay-specific
- **Bio-Rad** offers a full range of cardiac assessment controls that allows laboratories to select values of Troponin and other critical analytes best suited to their platform and patient population

For More Information

- **Brochure** Cardiac Assessment Controls (Q-1521)
- **Brochure** InteliQ (Q-1665)

Please note that not all products may be available in all countries.

Liquichek Cardiac Markers Plus Control LT

- Choice of four Troponin levels (1, 1A, 1B, or 1C), with lower target values for all analytes
- Includes values for BNP, NT-proBNP and hs CRP
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 20 day open-vial stability at 2–8°C for most analytes

POCT Methods Listed

Ordering Information

Cat #	Description
146	Level 1 . . . . . 6 x 3 mL
27104	Level 1A . . . . . 6 x 3 mL
27105	Level 1B . . . . . 6 x 3 mL
27106	Level 1C . . . . . 6 x 3 mL
147	Level 2 . . . . . 6 x 3 mL
148	Level 3 . . . . . 6 x 3 mL
149	Level Low . . . . . 6 x 3 mL
146X	Level 1 MiniPak . . . . . 1 x 3 mL
27104X	Level 1A MiniPak . . . . . 1 x 3 mL
27105X	Level 1B MiniPak . . . . . 1 x 3 mL
27106X	Level 1C MiniPak . . . . . 1 x 3 mL
147X	Level 2 MiniPak . . . . . 1 x 3 mL
148X	Level 3 MiniPak . . . . . 1 x 3 mL
149X	Level Low MiniPak . . . . . 1 x 3 mL

For Liquichek tube control, see page 77.
For Dimension Vista vials, see page 94.

Analytes

BNP
CK (Total)
CK-MB Isoenzyme
CRP
Digitoxin
Homocysteine*
Myoglobin
NT-proBNP
Troponin I
Troponin T

*No claim is made for expected value or stability.

Liquichek Cardiac Troponins Control

- Dedicated Troponins control
- Monitors the precision of hs (high sensitivity) or next generation assays near the 99th percentile upper reference limit and across the assay range
- Value assigned for major analyzer systems
- Convenience of a liquid control
- 18 month shelf life at -20ºC to -70ºC
- Open-vial stability at 2-8ºC
  - Troponin I: 14 days
  - Troponin T: 25 days

Ordering Information

Cat #	Description
12001084	Level 1 . . . . . 6 x 3 mL
12006239	Level 2 . . . . . 6 x 3 mL
12006369	Level 3 . . . . . 6 x 3 mL
12001085	Level 1 MiniPak . . . . . 1 x 3 mL
12006370	Level 2 MiniPak . . . . . 1 x 3 mL
12006371	Level 3 MiniPak . . . . . 1 x 3 mL

Analytes

Troponin I
Troponin T

Need a wider range of CRP values?
Refer to page 59 for an overview of CRP levels in Bio-Rad Controls.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Cardiac Markers Plus Control

- Monitors precision of Troponin assays at higher levels
- Includes BNP and NT-proBNP
- Values provided for hs-CRP
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 20 day open-vial stability at 2–8°C for most analytes

POCT Methods Listed

Ordering Information

Cat #	Description
180	Trilevel (2 of each level) . . . . . 6 x 3 mL
181	Level 1 . . . . . 6 x 3 mL
182	Level 2 . . . . . 6 x 3 mL
183	Level 3 . . . . . 6 x 3 mL
180X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Analytes

BNP
CK (Total)
CK-MB Isoenzyme
CRP
Digitoxin
Homocysteine*
Myoglobin
NT-proBNP
Troponin I
Troponin T

*No claim is made for expected values or stability.

Liquichek Cardiac Markers Control LT

- Designed to monitor precision of Roche Troponin T GEN 4 assays
- Value assigned solely for Roche systems
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 10 day open-vial stability at 2–8°C for most analytes

Ordering Information

Cat #	Description
645	Trilevel (2 of each level) . . . . . 6 x 3 mL
646	Level 1 . . . . . 6 x 3 mL
647	Level 2 . . . . . 6 x 3 mL
648	Level 3 . . . . . 6 x 3 mL
645X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Analytes

CK-MB Isoenzyme
Digitoxin
Homocysteine*
Myoglobin
NT-proBNP
Troponin I*
Troponin T

*No claim is made for expected values or stability.

Liquichek CK/LD Isoenzyme Control

- Monitors the precision of traditional and electrophoretic methods
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 10 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
671	Level 1 . . . . . 6 x 1 mL
672	Level 2 . . . . . 6 x 1 mL
670X	Bilevel MiniPak (1 of each level) . . . . . 2 x 1 mL

Analytes

Albumin
CK (Total)
CK Electrophoresis
CK-MB Isoenzyme
Globulin
LD Electrophoresis
LDH
Protein (Total)
Protein Electrophoresis

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Homocysteine Control

- Designed to monitor Homocysteine precision across a wide range of target values
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
287	Level 1 . . . . . 6 x 1 mL
288	Level 2 . . . . . 6 x 1 mL
289	Level 3 . . . . . 6 x 1 mL
288X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

For InteliQ Homocysteine Control, see page 75.

Analyte

Homocysteine

Use Bio-Rad's Cardiac Assessment Controls on these popular instruments

Manufacturer/Instrument(s)	Cardiac Markers Plus	Cardiac Markers Plus LT	Cardiac Markers LT	Cardiac Troponins	CK/LD Isoenzyme	Homocysteine
Abbott Diagnostics						
ARCHITECT Series	●	●			●	●
Beckman Coulter						
Access Series/LX i/UniCel DxI	●	●		●		●
AU Series	●	●			●	●
CX /LX/UniCel DxC Series	●	●			●	●
Immage	●	●				
BioMérieux						
VIDAS		●				
LSI Medience						
PATHFAST		●				
Ortho Clinical Diagnostics						
VITROS Series	●	●			●	●
VITROS ECi	●	●			●	
Roche Diagnostics						
Cobas 6000 Series/COBAS INTEGRA	●	●	●	●	●	●
Elecsys Systems	●	●	●	●		
Hitachi Systems	●	●	●	●	●	
MODULAR Systems	●	●	●	●	●	●
Siemens						
ADVIA Series	●	●			●	
ADVIA Centaur Series	●	●		●	●	●
Atellica Solution		●				●
BN Series	●	●				
Dimension Vista	●	●		●	●	●
Dimension Series	●	●		●	●	
IMMULITE Series	●	●				●
Stratus	●	●				
Tosoh						
AIA Series	●	●				●
Other						
Electrophoresis					●	
LC/LC-MS/HPLC						●
POCT Methods	●	●				

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Chemistry Controls & Serum Indices

Maximum confidence, minimal hassle with clinical chemistry control solutions from Bio-Rad

Serum Chemistry Controls

Liquid Assayed Multiqual 18
Liquid Unassayed Multiqual 18
Lyphochek Assayed Chemistry Control 19
Lyphochek Unassayed Chemistry Control (Human) 19
Liquichek Unassayed Chemistry Control (Human) 20
Liquichek Lipids Control 20
Liquichek Pediatric Control 21
Liquichek Ethanol/Ammonia Control 21

Urine Chemistry Controls

Lyphochek Quantitative Urine Control 22
Liquichek Microalbumin Control 22
Liquichek Urine Chemistry Control 23

Additional Information

Controls for Popular Instruments Chart 23

Serum Indices

Liquichek Serum Indices 24

See Also

- **Pages 73-78** InteliQ Quality Control Products
- **Page 84** Liquid Assayed Multiqual Premium
- **Pages 93-98** QC products in Dimension Vista vials

Did You Know?

- **A single control with a broad mix of analytes** can save time, provide QC coverage for a maximum number of tests, and minimize use of assay and single analyte control products

For More Information

- **Brochure** Independent Quality Control (Q-1128)
- **Booklet** Bio-Rad Quality Control Products in Dimension Vista Vials (Q-1214)
- **Brochure** Premium Controls for Immunochemistry (Q-1215)
- **Brochure** Liquichek Serum Indices (Q-1652)
- **Brochure** InteliQ (Q-1665)

Please note that not all products may be available in all countries.

Liquid Assayed and Unassayed Multiqual

- Provides a comprehensive range of general chemistry analytes for integrated and modular platforms
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 30 day unopened stability at 2–8°C for most analytes
- 14 day open-vial stability at 2–8°C for most analytes

POCT Methods Listed for Liquid Assayed Multiqual

Ordering Information

Cat #	Description
Liquid Assayed Multiqual	
694	Level 1 . . . . . 12 x 3 mL
695	Level 2 . . . . . 12 x 3 mL
696	Level 3 . . . . . 12 x 3 mL
695X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL
Liquid Unassayed Multiqual	
697	Level 1 . . . . . 12 x 10 mL
698	Level 2 . . . . . 12 x 10 mL
699	Level 3 . . . . . 12 x 10 mL
698X	Trilevel MiniPak (1 of each level) . . . . . 3 x 10 mL

For InteliQ Assayed Multiqual Control, see page 74.
For Liquid Assayed Multiqual Premium, see page 84.
For Dimension Vista vials, see page 94.

Analytes

Acetaminophen
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
Alpha-1-Antitrypsin
Alpha-Hydroxybutyrate Dehydrogenase (αHBDH)
ALT/SGPT
Amikacin
Amylase
Amylase (Pancreatic)
Apolipoprotein A-1
Apolipoprotein B
AST/SGOT
Bilirubin (Direct)
Bilirubin (Neonatal)
Bilirubin (Total)
Calcium (Ionized)
Calcium (Total)
Carbamazepine
Ceruloplasmin
Chloride
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Cholinesterase
CK-MB Isoenzyme*
CO_2
Complement C3
Complement C4
Copper
Cortisol
Creatine Kinase (CK)
Creatinine
Digoxin
Ethanol
Ferritin
Gentamicin
GGT
Globulin
Glucose
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Iron
Iron (TIBC)
Iron (UIBC)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
LAP Arylamidase
Lipase
Lithium
Magnesium
Osmolality
PAP*
Phenobarbital
Phenytoin
Phospholipids
Phosphorus
Potassium
Prealbumin
Protein Electrophoresis**
Protein (Total)
Salicylate
Sodium
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
Theophylline
Tobramycin
Transferrin
Triglycerides
TSH
Urea
Urea Nitrogen
Uric Acid
Valproic Acid
Vitamin B_{12}
Zinc

*No claim is made for expected value or stability.
**Albumin, α-1-Globulin, α-2-Globulin, β-Globulin, γ-Globulin.

Need higher Bilirubin values suitable for monitoring adult liver disease and neonatal testing?
Please review Liquichek Pediatric Control on page 21.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Assayed Chemistry Control and Lyphochek Unassayed Chemistry Control (Human)

- Includes a comprehensive list of claimed analytes for general chemistry testing
- Provides good stability for enzymes and CO_2
- No special diluents are required for reconstitution
- Human serum based
- 3 year shelf life at 2–8°C
- 30 day frozen reconstituted stability for most analytes
- 7 day open-vial reconstituted stability at 2–8°C for most analytes

POCT Methods Listed for Lyphochek Assayed Chemistry Control

Ordering Information

Cat #	Description
Assayed Chemistry Control	
C-310-5	Level 1 . . . . . 12 x 5 mL
C-315-5	Level 2 . . . . . 12 x 5 mL
313X	Bilevel MiniPak (1 of each level) . . . . . 2 x 5 mL
Unassayed Chemistry Control (Human)	
731	Level 1 . . . . . 25 x 5 mL
732	Level 2 . . . . . 25 x 5 mL
730X	Bilevel MiniPak (1 of each level) . . . . . 2 x 5 mL
C-320-10	Level 1 . . . . . 50 x 10 mL
C-325-10	Level 2 . . . . . 50 x 10 mL
323X	Bilevel MiniPak (1 of each level) . . . . . 2 x 10 mL

Analytes

Acetaminophen
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
Alpha-1-Antitrypsin
Alpha-Hydroxybutyrate Dehydrogenase (αHBDH)
Alphafetoprotein (AFP)
ALT/SGPT
Amylase
Amylase (Alpha)
Amylase (Pancreatic)
Apolipoprotein A-1
Apolipoprotein B
AST/SGOT
Bilirubin (Direct)
Bilirubin (Indirect)
Bilirubin (Total)
Calcium
Calcium (Ionized)
Carbamazepine
CEA
Ceruloplasmin
Chloride
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Cholinesterase
CO_2
Complement C3
Complement C4*
Copper
Cortisol
Creatine Kinase (CK)
Creatinine
Digoxin
Gentamicin
GGT
GLDH
Globulin
Glucose
Haptoglobin
hCG-β Subunit
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Iron
Iron (TIBC)
Iron (UIBC)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
LAP Arylamidase
Lipase
Lithium
Magnesium
Osmolality
PAP
Phenobarbital
Phenytoin
Phosphorus
Potassium
Protein Electrophoresis
Protein (Total)
PSA[1]
Salicylate
Sodium
T3 (Free)
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
TBG
Theophylline
Tobramycin
Transferrin
Triglycerides
TSH
Urea
Urea Nitrogen
Uric Acid
Valproic Acid
Vancomycin
Vitamin B_{12}
Zinc

[1]Available in Lyphochek Assayed Chemistry Control only.
*No claim is made for expected value or stability.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Unassayed Chemistry Control (Human)

- Unassayed control with larger 10 mL fill size for more cost effective serum chemistry testing
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 15 day open-vial stability at 2–8°C for most analytes

Ordering Information

Cat #	Description
691	Level 1 . . . . . 25 x 10 mL
692	Level 2 . . . . . 25 x 10 mL
690X	Bilevel MiniPak (1 of each level) . . . . . 2 x 10 mL

Analytes

Acetaminophen
Acid Phosphatase (Total)
Albumin
Aldolase*
Alkaline Phosphatase (ALP)
Alpha-Hydroxybutyrate Dehydrogenase (αHBDH)
ALT/SGPT
Amylase
AST/SGOT
Bilirubin (Direct)*
Bilirubin (Indirect)*
Bilirubin (Total)
Calcium
Calcium (Ionized)*
Carbamazepine
Chloride
Cholesterol (HDL)*
Cholesterol (Total)
CO_2
Copper
Cortisol
Creatine Kinase (CK)
Creatinine
Digoxin
Ethanol
Folate
Gentamicin
GGT
GLDH*
Globulin
Glucose
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Iron
Iron (TIBC)
Iron (UIBC)*
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
LAP Arylamidase*
Lipase
Lithium
Magnesium
Osmolality
PAP*
Phenobarbital
Phenytoin
Phospholipids
Phosphorus
Potassium
Protein (Total)
Protein Electrophoresis
Pseudocholinesterase
Salicylate
Sodium
T3 (Free)*
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)*
T4 (Total)
Theophylline
Tobramycin
Transferrin
Triglycerides
TSH
Urea Nitrogen
Uric Acid
Valproic Acid
Vancomycin
Vitamin B_{12}
Zinc*

*No claims are made regarding performance or stability.

Liquichek Lipids Control

- Contains C-Reactive Protein in levels optimized for hs-CRP assays
- Higher Triglycerides and Cholesterol values to monitor precision of the full assay range
- Provides values for direct HDL
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 14 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
641	Level 1 . . . . . 6 x 3 mL
642	Level 2 . . . . . 6 x 3 mL
640X	Bilevel MiniPak (1 of each level) . . . . . 2 x 3 mL

Analytes

Apolipoprotein A-1
Apolipoprotein B
C-Reactive Protein
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Lipoprotein (a)
Triglycerides

Need a wider range of CRP values?
Refer to page 59 for an overview of CRP levels in Bio-Rad Controls.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Pediatric Control

- Four Bilirubin parameters are available at two clinically significant levels for neonatal testing
- Suitable for monitoring high Bilirubin levels important for adult liver disease
- Liquid
- 3 year shelf life at -20°C to -70°C
- 3 month stability when stored unopened at 2–8°C
- 14 day open-vial stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
354	Level 1 . . . . . 6 x 4 mL
355	Level 2 . . . . . 6 x 4 mL
353X	Bilevel MiniPak (1 of each level) . . . . . 2 x 4 mL

For Dimension Vista vials, see page 97.

Analytes

Bilirubin (Direct)
Bilirubin (Indirect)
Bilirubin (Neonatal)
Bilirubin (Total)
Caffeine
Calcium
Chloride
Glucose
Magnesium
Phenylalanine
Potassium
Sodium
Theophylline

Liquichek Ethanol/Ammonia Control

- Normal, elevated and toxic concentrations of Ethanol and Ammonia to monitor precision across the clinical range
- 2 year shelf life at 2–8°C
- 20 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
544	Level 1 . . . . . 6 x 3 mL
545	Level 2 . . . . . 6 x 3 mL
546	Level 3 . . . . . 6 x 3 mL
545X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

For InteliQ Ethanol/Ammonia Control, see page 75.

For Dimension Vista vials, see page 95.

Analytes

Ammonia
Ethanol

Need an Alcohol control for mass spec?

Please review Liquichek Serum Volatiles Control on Page 111.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Quantitative Urine Control

- Comprehensive analyte menu for quantitative assays that monitor the precision for general urine chemistry, hormones and esoteric testing including biogenic amines, metals and porphyrins
- Contains hCG
- Microalbumin available at levels found in early stages of proteinuria and associated nephropathy
- Value assigned for a comprehensive list of methods
- Human urine based
- 2 year shelf life at 2–8°C for most analytes
- 5 day reconstituted stability at 2–8° for most analytes

Ordering Information

Cat #	Description
376	Level 1, Normal . . . . . 12 x 10 mL
377	Level 2, Abnormal . . . . . 12 x 10 mL
375X	Bilevel MiniPak (1 of each level) . . . . . 2 x 10 mL

Analytes

3-Methoxytyramine
5-Aminolevulinic Acid (ALA)
5-HIAA
11-β-Hydroxy-Androsterone*
11-β-Hydroxy-Etiocholanolone*
17-Hydroxycorticosteroids
11-Ketoandrosterone*
11-Ketoetiocholanolone*
17-Ketosteroids
17-Ketogenic Steroids
Aldosterone
AMP (Cyclic)*
Androsterone*
Arsenic
Barbiturates*
Calcium
Chloride
Copper*
Coproporphyrin
Cortisol
Creatine*
Creatinine
Cystine*
Dehydroepiandrosterone (DHEA)*
Dopamine
Epinephrine
Estriol (Total)*
Etiocholanolone*
Glucose
Homovanillic Acid (HVA)
Hydroxyproline (Free)*
Hydroxyproline (Total)
Iron
Lead
Magnesium
Mercury
Metanephrine
Metanephrine (Total)
Microalbumin
Norepinephrine
Normetanephrine
Osmolality
pH
Phosphorus
Porphyrins (Total)
Potassium
Pregnancy (Qualitative)
Pregnanetriol*
Protein (Total)
Sodium
Specific Gravity
Urea
Urea Nitrogen
Uric Acid
Uroporphyrins
Vanillylmandellic Acid (VMA)
Zinc*

*No claims are made regarding performance or stability.

Liquichek Microalbumin Control

- Designed using human Albumin at levels found in early stage renal disease
- Values provided for a wide range of popular instrument platforms
- Liquid, human urine based
- 2 year shelf life at 2–8ºC
- 90 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
378	Level 1 . . . . . 12 x 10 mL
379	Level 2 . . . . . 12 x 10 mL
374X	Bilevel MiniPak (1 of each level) . . . . . 2 x 10 mL

Analytes

Creatinine
Microalbumin

Need additional analytes?
For more human urine analytes please refer to Liquichek Urine Chemistry Control on page 23.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Urine Chemistry Control

- Provides assayed values for urine tests commonly performed on chemistry analyzers and some manual methods
- Includes hCG, Amylase and Creatinine
- Liquid, human urine based
- 2 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
397	Level 1 . . . . . 12 x 10 mL
398	Level 2 . . . . . 12 x 10 mL
395X	Bilevel MiniPak (1 of each level) . . . . . 2 x 10 mL

For Liquichek tube control see page 78.

For Dimension Vista vials, see page 98.

Analytes

Amylase
Calcium
Chloride
Cortisol
Creatinine
Glucose
Magnesium
Microalbumin
Osmolality
pH
Phosphorus
Potassium
Pregnancy (Qualitative)
Protein (Total)
Sodium
Specific Gravity
Urea
Urea Nitrogen
Uric Acid

Looking for additional analytes?

An extensive list of general and esoteric urine analytes are also included in Lyphochek Quantitative Urine Control on page 22.

Use Bio-Rad's Chemistry Controls on these popular instruments

Manufacturer/Instrument(s)	Assayed & Unassayed Chemistry (Lyophilized)	Assayed & Unassayed Multiqual (Liquid)	Ethanol/ Ammonia	Unassayed Chemistry (Liquid)	Lipids	Microalbumin	Pediatric	Quantitative Urine	Urine Chemistry
Abbott Diagnostics									
ARCHITECT Series	●	●	●	●	●	●	●	●	●
Beckman Coulter									
AU Series	●	●	●	●	●	●	●	●	●
Immage Systems		●			●	●		●	●
Synchron/UniCel DxC Series	●	●	●	●	●	●	●	●	●
Synchron/UniCel Dxl Series									●
Ortho Clinical Diagnostics									
VITROS Series	●	●	●	●	●	●	●	●	●
Roche Diagnostics									
cobas c Systems	●	●	●	●	●	●	●	●	●
COBAS INTEGRA	●	●	●	●	●	●	●	●	●
Elecsys Systems								●	●
Hitachi/MODULAR Systems	●	●	●	●	●	●	●	●	●
Siemens									
ADVIA Centaur Series	●	●						●	●
ADVIA Chemistry Series	●	●	●	●	●	●	●	●	●
Atellica Solution		●	●						●
BN Series	●	●			●	●		●	●
Dimension Series	●	●	●	●	●	●	●	●	●
Dimension Vista Systems	●	●	●	●	●	●	●	●	●
IMMULITE Series	●	●			●				
Other									
Enzymatic Method			●			●			
GC, GC-MS/GC-FID			●						
POCT Methods	●	●					●		●

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Serum Indices

- Intended for use as part of laboratory interference testing to monitor instrument response in detecting hemolyzed, icteric or lipemic (HIL) samples to help improve detection of pre-analytical errors affecting clinical chemistry testing
- Prepared from human source material
- 2 year shelf life at -20°C to -70°C
- 30 day unopened stability at 2-8°C
- 14 day open-vial stability at 2-8°C
- 28 day frozen aliquot at -20°C to -70°C

Ordering Information

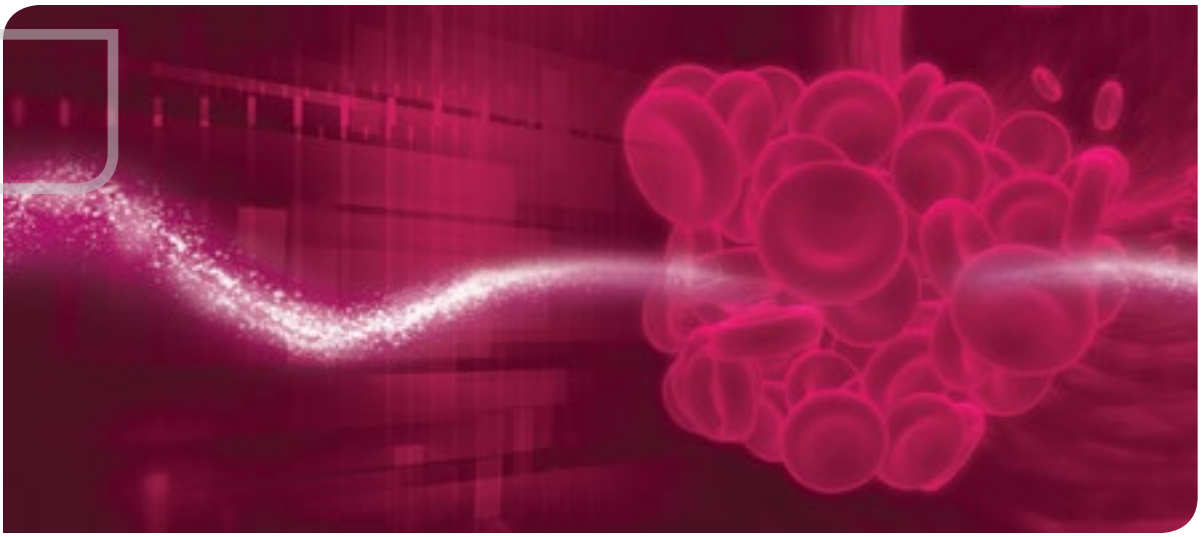
Cat #	Description
12009621	Hemolysis . . . . . 6 x 4 mL
12009620	Icterus . . . . . 6 x 4 mL
12009619	Lipemia . . . . . 6 x 4 mL
12009618	Non-interfered . . . . . 6 x 4 mL
12009617	MiniPak (1 of each Interferent) . . . . . 4 x 4 mL

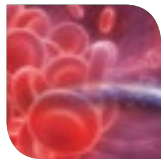
Interferent

Hemolysis
Icterus
Lipemia
Non-Interfered

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**





Coagulation Controls

Values for coagulation times, factors and fragments across a wide range of platforms

Coagulation Controls

Lyphochek Coagulation Control 26

Lyphochek Hemostasis Control 26

Liquichek D-dimer Control 27

Additional Information

Controls for Popular Instruments Chart 28

See Also

- **Pages 13-16** for Cardiac Assessment Controls
- **Pages 41-48** for Hematology Controls

Did You Know?

- **Cost conscious** laboratories can take advantage of the 48 hour open-vial stability at 2–25°C for basic coagulation tests provided by Lyphochek Coagulation Control

For More Information

- **Booklet** Hematology and Coagulation Controls (Q-1523)

Please note that not all products may be available in all countries.

Lyphochek Coagulation Control

- Extended open-vial stability reduces the cost of daily QC
- Three year shelf life allows laboratories to save money by performing fewer crossover studies
- Human based
- 3 year shelf life at 2–8°C
- 48 hour open-vial stability at 2–25°C

Ordering Information

Cat #	Description
744	Level 1 . . . . . 12 x 1 mL
745	Level 2 . . . . . 12 x 1 mL
746	Level 3 . . . . . 12 x 1 mL
745X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

Analytes

Activated Partial Thromboplastin Time (APTT)
Antithrombin III (AT III)
Fibrinogen
Prothrombin Time (PT)
Thrombin Time (TT)

Lyphochek Hemostasis Control

- Supplements basic parameters provided by Lyphochek Coagulation Control with additional factors
- Provides QC for more specialized diagnostic testing
- Human based
- 3 year shelf life at 2–8°C
- 8 hour open-vial stability at 2-25°C, except for Protein S at 2–8°C

Ordering Information

Cat #	Description
597	Level 1 . . . . . 12 x 1 mL
598	Level 2 . . . . . 12 x 1 mL
599	Level 3 . . . . . 12 x 1 mL
598X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

Analytes

Activated Partial Thromboplastin Time (APTT)
Antithrombin III (AT III)
Factors II, V, VII, VIII, IX, X, XI and XII
Fibrinogen
Plasminogen
Protein C (Functional)
Protein S (Functional)
Prothrombin Time (PT)
Thrombin Time (TT)

Did you know. . .
To improve patient safety, it's a good idea to end the day of testing with a QC evaluation.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek D-dimer Control

- Four level control monitoring assay precision across the critical range used in diagnosis of thrombotic events on multiple platforms
- Liquid, human-plasma based
- 3 year shelf life at -20°C to -70°C
- 15 day open-vial stability at 2–8ºC

POCT Methods Listed

Ordering Information

Cat #	Description
27100	Level Low . . . . . 6 x 1 mL
27101	Level 1 . . . . . 6 x 1 mL
27102	Level 2 . . . . . 6 x 1 mL
27103	Level 3 . . . . . 6 x 1 mL
27102X	Four Level MiniPak (1 of each level) . . . . . 4 x 1 mL

Analyte

D-dimer

Liquichek D-dimer Control may be used with the following instruments and test methods

- Alere Triage
- BioMérieux VIDAS
- Diagnostica Stago STA Hemostasis System
- Instrumentation Laboratory (IL)
  - ACL ELITE/ELITE PRO
  - ACL TOP System
- Mitsubishi PATHFAST
- Roche Diagnostics
  - COBAS INTEGRA
  - Hitachi Systems
- Siemens
  - BCS/BCT
  - IMMULITE
  - Stratus CS
  - Sysmex CA Series
- POCT Methods

If your instrument model is not listed, please contact your nearest Bio-Rad office for current information.

Popular Instruments for D-dimer Assays

Instrument	Level Low	Level 1	Level 2	Level 3
bioMérieux	●	●	●	●
Biosite Triage Meter Pro		●	●	●
Diagnostica Stago	●	●	●	●
IL ACL	●	●	●	●
Mitsubishi PATHFAST	●	●	●	
Roche/Hitachi Cobas	●	●	●	●
Siemens BCS	●	●	●	●
Siemens Immulite 2000		●	●	●
Siemens Stratus	●	●	●	●
Sysmex CA Series	●	●	●	●

These are recommended levels.
Refer to package insert for complete instrument listing.

Target Levels

	D-dimer ng/mL (FEU)*
Level Low	250
Level 1	550
Level 2	1600
Level 3	3200

The values listed are approximate targets. The actual observed values will vary depending upon lot number, analyzer, reagent, method, and calibrator.

*Fibrinogen Equivalent Units (FEU) = twice the mass of the D-DU (D-dimer units).

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Use Bio-Rad's Coagulation Controls with these popular reagents

Manufacturer/reagent(s)	PT	aPTT	Fibrinogen	AT III
Diagon				
Dia-PT	●			
Dia-PT R	●			
Dia-PT (INR)	●			
Dia-PT LIQUID (INR)	●	●		
Dia-PTT		●		
Dia-PTT-LIQUID		●		
Dia-FIB			●	
Diagnostica Stago				
STA-Neoplastine CI Plus (INR)	●			
STA-Neoplastine CI Plus	●			
STA PTT Automate		●		
STA-Stachrom AT III				●
STA Fibrinogen			●	
Instrumentation Laboratory (IL)				
HemosIL RecombiPlasTin 2G (INR)	●			
HemosIL RecombiPlasTin 2G	●			
HemosIL APTT-SP (Synthetic Phospholipids)		●		
HemosIL SynthASiL		●		
HemosIL Antithrombin III (Liquid)				●
HemosIL Fibrinogen C			●	
HemosIL Q.F.A. Thrombin (Bovine)			●	
HemosIL RecombiPlasTin 2G (Derived)			●	
Siemens				
Dade Innovin	●			
Thromborel S	●			
Dade Innovin (INR)	●			
Thromborel S (INR)	●			
Dade Actin FS		●		
Dade Actin FSL		●		
Pathromtin SL		●		
Berichrom Antithrombin III				●
INNOVANCE Antithrombin				●
Multifibren U			●	
Dade Innovin (Derived)			●	
Dade Thrombin			●	

If your reagent is not listed, please contact your nearest Bio-Rad office for current information.

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**

Diabetes/Hemoglobin Controls

Monitor Hemoglobin A1C testing with superior Quality Controls from Bio-Rad

Diabetes/Hemoglobin Controls

Liquichek Diabetes Control 30
Lyphochek Diabetes Control 30
Lyphochek Hemoglobin A1C Linearity Set 30
Lyphochek Hemoglobin A2 Control 31
Meter Trax Control 31

Additional Information

Controls for Popular Instruments Chart 32

See Also

- **Page 95** for Liquichek Diabetes Control in Dimension Vista vials

Did You Know?

- The Hemoglobin A1C values in our controls are listed in both NGSP (%) and IFCC (mmol/mol) units

For More Information

- **Booklet** Bio-Rad Quality Control Products in Dimension Vista Vials (Q-1214)
- **Brochure** Diabetes Controls and Lyphochek Hemoglobin A1C Linearity Set (Q-1520)

Please note that not all products may be available in all countries.

Liquichek Diabetes Control

- Designed to monitor the assay precision of Hemoglobin fractions associated with diabetes
- Liquid, human whole blood based
- 3 year shelf life at -10°C to -70°C
- 6 month shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
171	Level 1 . . . . . 6 x 1 mL
172	Level 2 . . . . . 6 x 1 mL
173	Level 3 . . . . . 6 x 1 mL
172X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

For Dimension Vista vials, see page 95.

Analytes

Hemoglobin (Total)
Hemoglobin A1C

Lyphochek Diabetes Control

- Lyophilized control available in two levels
- Human whole blood based control
- 3 year shelf life at 2–8°C
- 7 day reconstituted stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
740	Bilevel (3 of each level) . . . . . 6 x 0.5 mL
740X	Bilevel MiniPak (1 of each level) . . . . . 2 x 0.5 mL

Analytes

Hemoglobin (Total Glycated)*
Hemoglobin (Total)
Hemoglobin A1*
Hemoglobin A1C
Hemoglobin F

*No claims are made regarding performance or stability.

Lyphochek Hemoglobin A1C Linearity Set

- Intended to verify linearity throughout the reportable range of Hemoglobin A1C assays
- Human whole blood based
- 3 year shelf life at 2–8°C
- 7 day reconstituted stability at 2–8°C

Linearity Web software available on QCNet.com

Ordering Information

Cat #	Description
12000070	Set (1 of each level) . . . . . 6 x 0.5 mL

Analyte

Hemoglobin A1C

Assayed values available for common analyzers:

Bio-Rad Analyzers

- D-10
- VARIANT
- VARIANT II Turbo

Other Analyzers

- Beckman Coulter SYNCHRON Systems
- Siemens ADVIA
- Siemens Dimension Series
- Roche COBAS INTEGRA & Hitachi Systems
- Tosoh G7 & G8

Expected Values for Hemoglobin A1C (%NGSP)*

Level 1	2.7 - 3.8%
Level 2	4.1 - 5.1%
Level 3	5.5 - 6.5%
Level 4	8.4 - 10%
Level 5	12 - 15%
Level 6	16 - 22%

*Ranges reflect typical recovery values for this product. Exact values may vary depending on test/assay methodology, instruments, reagent, system calibrators or laboratory technique.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Hemoglobin A_2 Control

- Lyophilized
- Human whole blood based control
- 2 year shelf life at 2–8°C
- 21 day reconstituted stability at 2–8°C for most methods

Ordering Information

Cat #	Description
553	Bilevel (2 of each level) . . . . . 4 x 0.5 mL
553X	Bilevel MiniPak (1 of each level) . . . . . 2 x 0.5 mL

Assayed values available for common analyzers:

Bio-Rad
- D-10
- VARIANT
- VARIANT II

Other
- Sebia Hydragel
- Tosoh G7
- Trinity ultra 2

Analytes

Hemoglobin A_2
Hemoglobin F
Hemoglobin S

Meter Trax Control

- Easy-to-use control for Glucose, Hemoglobin and Hematocrit testing on point-of-care instruments
- Glucose and Hemoglobin stable for 31 days at 2–25°C after opening
- Hematocrit stable for 31 days at 2–8°C after opening
- 6 month shelf life at 2-8°C

POCT Methods Listed

Ordering Information

Cat #	Description
970	Trilevel (2 of each level) . . . . . 6 x 2 mL
971	Low Level. . . . . 6 x 2 mL
972	Mid Level . . . . . 6 x 2 mL
973	High Level . . . . . 6 x 2 mL
970X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Assayed values available for common analyzers:

- Abbott iSTAT
- BD Clay Adams
- Beckman StatSpin
- STI HemataSTAT
- HemoCue Hb
- i-SENS CareSens
- LifeScan OneTouch
- Nova StatStrip
- Roche Accu-Chek

Analytes

Glucose
Hematocrit (HCT)
Hemoglobin (Total)

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Use Bio-Rad's Diabetes/Hemoglobin Controls on these popular instruments

Manufacturer/Instrument(s)	Diabetes (Liquid & Lyophilized)	Hemoglobin A1C Linearity	Hemoglobin A_2	Meter Trax
Abbott Diagnostics				
ARCHITECT Series	●	●		
Beckman Coulter				
AU Series	●	●		
CX /LX/UniCel DxC Series	●	●		
Bio-Rad Laboratories				
VARIANT II Turbo	●	●		
VARIANT II	●	●	●	
D-10	●	●	●	
Ortho Clinical Diagnostics				
VITROS Series	●	●		
Roche Diagnostics				
Cobas 6000 Series/COBAS INTEGRA	●	●		
Hitachi Systems	●			
Sebia				
Hydragel			●	
Siemens				
ADVIA Series	●	●		
Dimension Vista	●	●		
Dimension Series	●	●		
Tosoh				
A1c	●			
G7	●	●	●	
Trinity Biotech				
ultra 2			●	
Other				
POCT Methods	●			●

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**

External Quality Assurance Services (EQAS)

Participate in an internationally recognized quality assessment program

EQAS Programs

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Did You Know?

- **Accredited to** ISO/IEC 17043:2010 “Conformity assessment–General requirements for proficiency testing”
- **Convenient electronic reporting options** to choose from (EQAS Online and EQAS Mobile)
- **Reference Method Values** provided for select programs

For More Information

- **Booklet** EQAS Programs (Q-1557)
- **Flyer** EQAS Online (Q-1175)
- **Brochure** EQAS Programs for Blood Banks (Q-1646)
- **Poster** EQAS Troubleshooting Poster (Q-1640)
- **Flyer** EQAS Troubleshooting Checklist (Q-1641)
- **Booklet** EQAS Explained (Q-1649)
- **Infographic** EQAS Programs (Q-1654)

Please note that not all products may be available in all countries.

Blood Gas Program

- Liquid, aqueous samples
- Comprehensive menu for external assessment of laboratory test performance of Blood Gas, Electrolytes, Glucose, Lactate and Magnesium
- 12-month cycle

Ordering Information

Catalog #	
BC31*	12 x 2.5 mL

Analytes

Calcium (Ionized)
Chloride
Glucose
Lactate (Lactic Acid)
Magnesium
pCO_2
pH
pO_2
Potassium
Sodium

Blood Typing Program

- Ideal for clinical lab, blood bank and transfusion center testing needs
- Barcoded and ready-to-use tubes for automated platforms
- 3 samples tested every 4 months
- Educational case studies with each shipment

Ordering Information

Catalog #	Description	*Sample*		*Donor*
12000837*	Shipment A	3 x 4 mL	+	1 x 2 mL
12000838*	Shipment B	3 x 4 mL	+	1 x 2 mL
12000839*	Shipment C	3 x 4 mL	+	1 x 2 mL

Parameters

ABO Group
Antibody Identification
Antibody Screen
Compatibility (Cross-match)
DAT (Direct Antiglobulin Test)
Rh(D)
Pilot Analyte
Antigen Typing

Cardiac Markers Program

- Liquid, human plasma based
- Comprehensive menu of important cardiac assessment markers, plus D-dimer
- 12-month cycle

Ordering Information

Catalog #	
BC39*	12 x 1.5 mL

Analytes

BNP
CK-MB
D-dimer
Homocysteine
hs-CRP
Myoglobin
NT-proBNP
Troponin I
Troponin T

*Aspects of the program are subcontracted from an approved supplier.
Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Clinical Chemistry (Monthly) Program

- Lyophilized, human serum based
- 12-month cycle
- Submit results for the appropriate sample every month
- Reference Method Values provided for select analytes

Ordering Information

Catalog #

BC50 . . . . . 12 x 5 mL

Analytes

Acid Phosphatase (Total)
Alanine Aminotransferase (ALT/SGPT)
Albumin
Alkaline Phosphatase (ALP)
Amylase (Pancreatic)
Amylase (Total)
Aspartate Aminotransferase (AST/SGOT)
Bilirubin (Direct)
Bilirubin (Indirect)
Bilirubin (Total)
Calcium (Ionized)
Calcium (Total)
Carbon Dioxide (CO_2)
Chloride
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Cholinesterase
Copper
Cortisol
Creatine Kinase (CK)
Creatinine
Gamma Glutamyl Transferase (GGT)
Glucose
Iron
Iron Binding Capacity, Total (TIBC)
Iron Binding Capacity, Unsaturated (UIBC)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
Lipase
Lithium
Magnesium
Osmolality
Phosphorus
Potassium
Protein (Total)
Sodium
Thyroid Stimulating Hormone (TSH)
Thyroxine (T4), Free
Thyroxine (T4), Total
Transferrin
Triglycerides
Triiodothyronine (T3), Free
Triiodothyronine (T3), Total
Urea
Urea Nitrogen
Uric Acid
Zinc
Pilot Analyte
Bile Acid

Coagulation Program

- Lyophilized, human plasma based
- 11 parameters for external assessment of laboratory coagulation test performance
- 12-month cycle

Ordering Information

Catalog #

BC34* . . . . . 12 x 1 mL

Analytes

Antithrombin III (ATIII)
APTT
D-dimer
Factor VIII
Fibrinogen
INR
Protein C
Protein S
PT
Thrombin Time (TT)
Von Willebrand Factor (vWF)

Ethanol/Ammonia Program

- Liquid, human serum based
- Clinically relevant levels of serum Ethanol and Ammonia
- 12-month cycle

Ordering Information

Catalog #

BC35* . . . . . 12 x 3 mL

Analytes

Ammonia
Ethanol

*Aspects of the program are subcontracted from an approved supplier.
Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Hematology Program

- Liquid product with human RBCs
- Choice of 11 basic hematology parameters
- For use on manual or automated analyzers
- Convenience of primary pierceable tubes
- 12-month cycle consisting of 4 separate shipments
- Submit results for the appropriate sample every month

Ordering Information

Catalog #	Description	
BC90A*	Shipment A	3 x 2 mL
BC90B*	Shipment B	3 x 2 mL
BC90C*	Shipment C	3 x 2 mL
BC90D*	Shipment D	3 x 2 mL

Parameters

Hematocrit (HCT)
Hemoglobin (HGB)
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
Platelets (PLT)
Red Blood Cells (RBC)
Red Blood Cell Distribution Width (RDW)
Red Blood Cell Distribution Width-SD (RDW-SD)
White Blood Cells (WBC)

Hemoglobin Program

- Lyophilized, human whole blood based
- Includes HbA1C and HbA_2
- 12-month cycle
- Submit results for the appropriate sample every month
- Reference Method Values provided for Hemoglobin A1C

Ordering Information

Catalog #	
BC80	12 x 0.5 mL

Analytes

Hemoglobin A1C
Hemoglobin A_2
Hemoglobin (Total Glycated)

HIV/Hepatitis Program

- Liquid, human source material
- Suitable for serological tests used to detect key HIV and Hepatitis viral antibodies and antigens
- Qualitative and quantitative results reporting available
- Submit results and view reports each month through EQAS Online

Ordering Information

Catalog #	
12000815	12 x 2 mL

Analytes

Anti-HAV
Anti-HBc
Anti-HBe
Anti-HBs
Anti-HCV
Anti-HIV-1
Anti-HIV-1/2
Anti-HIV-2
Anti-HTLV-I
HAV IgG
HAV IgM
HBc IgM
HBeAg
HBsAg
HIV-1 Ag

*Aspects of the program are subcontracted from an approved supplier.
Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Immunoassay (Monthly) Program

- Lyophilized, human serum based
- Comprehensive menu of the most commonly tested immunoassay analytes
- 12-month cycle
- Submit results for the appropriate sample every month

Ordering Information

Catalog #

BC75 . . . . . 12 x 5 mL

Analytes

11-Deoxycortisol
17-α-OH-Progesterone
25-OH Vitamin D
β-2 Microglobulin
ACE
ACTH
Aldosterone
Alphafetoprotein (AFP)
Androstenedione
C-Peptide
CA 15-3
CA 19-9
CA 27.29
CA 125
Carbamazepine
Carcinoembryonic Antigen (CEA)
Cortisol
DHEA
DHEA Sulfate
Digoxin
Estradiol
Estriol, Free (UE_3)
Ferritin
Folate
Follicle Stimulating Hormone (FSH)
Gastrin
hCG
hGH
Immunoglobulin E (IgE)
Insulin
Intact PTH
LH
NSE
Phenobarbital
Phenytoin
Plasma Renin Activity
Progesterone
Prolactin
PSA (Free)
PSA (Free/Total Ratio)
PSA (Total)
Renin
S100 Protein
Sex Hormone Binding Globulin (SHBG)
T3 Uptake
T-Uptake
Testosterone
Theophylline
Thyroglobulin (Tg)
Thyroid Stimulating Hormone (TSH)
Thyroxine Binding Globulin (TBG)
Thyroxine, Free (FT_4)
Thyroxine (T4), Total
Transferrin
Triiodothyronine, Free (FT_3)
Triiodothyronine (T3), Total
Valproic Acid
Vitamin B_{12}

Pilot Analytes

Calcitonin
Fructosamine
Testosterone (Free)

Lipids Program

- Liquid, human serum based
- Comprehensive menu of lipid profile analytes
- 12-month cycle
- Submit results for the appropriate sample every month

Ordering Information

Catalog #

BC47* . . . . . 12 x 3 mL

Analytes

Apolipoprotein A-1
Apolipoprotein B
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Lipoprotein (a)
Triglycerides

Pilot Analyte

Cholesterol (non-HDL)

*Aspects of the program are subcontracted from an approved supplier.
Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Serum Proteins Program

- Lyophilized, human serum based
- Comprehensive menu for external assessment of serum protein assays
- 12-month cycle
- Submit results for the appropriate sample every month

Ordering Information

Catalog #

BC23 . . . . . 12 x 1 mL

Analytes

α-1 Acid Glycoprotein
α-1 Antitrypsin
α-2 Macroglobulin
β-2 Microglobulin
Albumin
Antistreptolysin O (ASO)
C-Reactive Protein (CRP)
Ceruloplasmin
Complement C3
Complement C4
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Kappa Light Chain
Lambda Light Chain
Prealbumin
Protein (Total)
Rheumatoid Factor (RF)
Transferrin
Pilot Analyte
Anti-DNase B

Syphilis/Chagas Program

- Liquid, human source material
- Suitable for serological tests detecting *Treponema pallidum*, Non-Treponemal and *Trypanosoma cruzi* antibodies
- 12-month cycle
- Qualitative and quantitative results reporting available
- Submit results and view reports each month through EQAS Online

Ordering Information

Catalog #

12000833 . . . . . 12 x 1.5 mL

Analytes

Non-Treponemal Antibodies
Treponema pallidum IgG
Treponema pallidum Antibodies
Trypanosoma cruzi Antibodies

Therapeutic Drug Monitoring Program

- Lyophilized, human serum based
- Analytes targeted at therapeutic, sub-therapeutic and toxic levels
- 12-month cycle
- Submit results for the appropriate sample every month
- Weighed-in Values provided for select analytes at end of cycle

Ordering Information

Catalog #

BC10 . . . . . 12 x 5 mL

Analytes

Acetaminophen
Amikacin
Amitriptyline
Caffeine
Carbamazepine
Cyclosporine
Digoxin
Ethosuximide
Gentamicin
Lithium
Methotrexate
Nortriptyline
Phenobarbital
Phenytoin
Primidone
Salicylate
Theophylline
Tobramycin
Tricyclic Antidepressants (TCA) Screen
Valproic Acid
Vancomycin

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

ToRCH/EBV/MuMZ Program

- Liquid, human source material
- Suitable for serological tests used to detect pediatric diseases and congenital infections
- Qualitative and quantitative results reporting available
- Submit results and view reports each month through EQAS Online

Ordering Information

Catalog #

12000825. . . . . 12 x 2 mL

Analytes

Cytomegalovirus (CMV) IgG
Cytomegalovirus (CMV) IgM
Epstein-Barr Virus (EBNA) IgG
Epstein-Barr Virus (VCA) IgG
Epstein-Barr Virus (VCA) IgM
Herpes Simplex Virus (HSV-1) IgG
Herpes Simplex Virus (HSV-1/2) IgG
Herpes Simplex Virus (HSV-2) IgG
Measles Virus (Rubeola) IgG
Mumps Virus IgG
Rubella Virus IgG
Rubella Virus IgM
Toxoplasma gondii (Toxo) IgG
Toxoplasma gondii (Toxo) IgM
Varicella Zoster Virus (VZV) IgG

Urinalysis Program

- Liquid matrix
- Suitable for manual and automated dipstick analysis in both clinical and point-of-care testing (POCT)
- Submit qualitative results and view reports each month through EQAS Online

Ordering Information

Catalog #

12000810. . . . . 12 x 12 mL

Analytes

Albumin
Albumin-to-Creatinine Ratio
Bilirubin
Blood/Hemoglobin
Creatinine
Glucose
Ketones
Leukocytes
Nitrite
pH
Pregnancy (hCG)
Protein (Total)
Protein-to-Creatinine Ratio
Specific Gravity
Urobilinogen

Urine Chemistry Program

- Lyophilized, human urine based
- Matrix appropriate samples include basic and specialty urine chemistry analytes
- 12-month cycle
- Submit results for the appropriate sample every month

Ordering Information

Catalog #

BC45 . . . . . 12 x 10 mL

Analytes

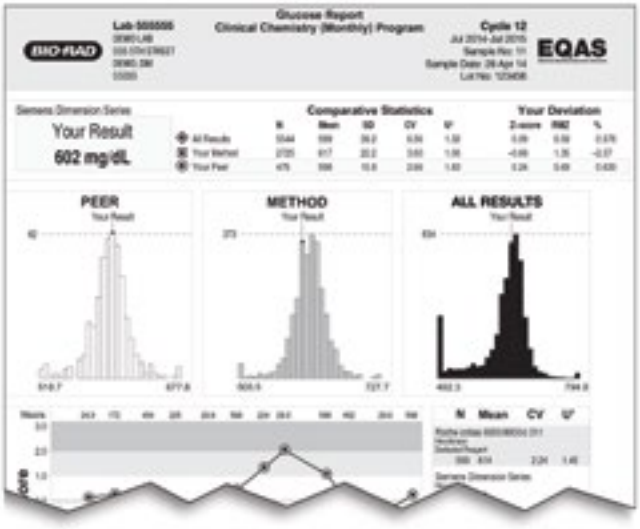
5-Hydroxyindoleacetic Acid (5-HIAA)
Calcium (Total)
Chloride
Cortisol (Free)
Creatinine
Dopamine
Epinephrine
Glucose
Homovanillic Acid (HVA)
Magnesium
Metanephrine
Microalbumin (Albumin)
Norepinephrine
Normetanephrine
Osmolality
Phosphorus
Potassium
Protein (Total)
Sodium
Urea Nitrogen
Uric Acid
Vanillylmandelic Acid (VMA)
Pilot Analyte
Urea

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

EQAS Reports

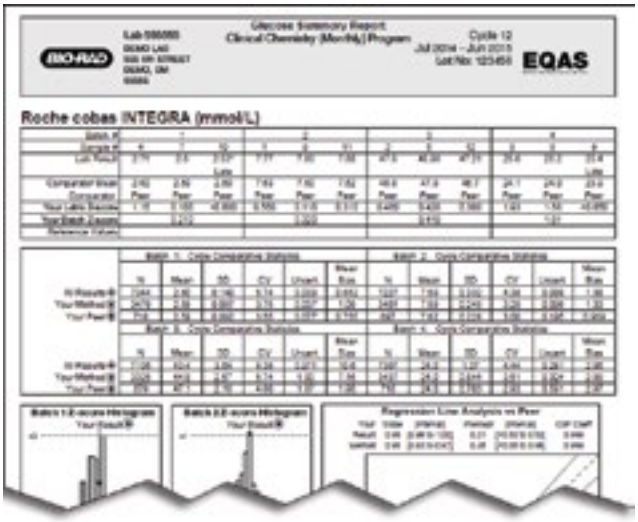
Participants receive twelve sample reports and one end-of-cycle report over each program cycle. These detailed reports are presented in an easy-to-read graphic format. Sample reports are available online within three days of the statistical analysis. Additional special reports (Quality Specification, Subgroup and Instrument/Method Summary) are available to registered participants.

Quantitative Reports



Sample Report

Detailed individual statistical analyses and peer group comparisons are provided.



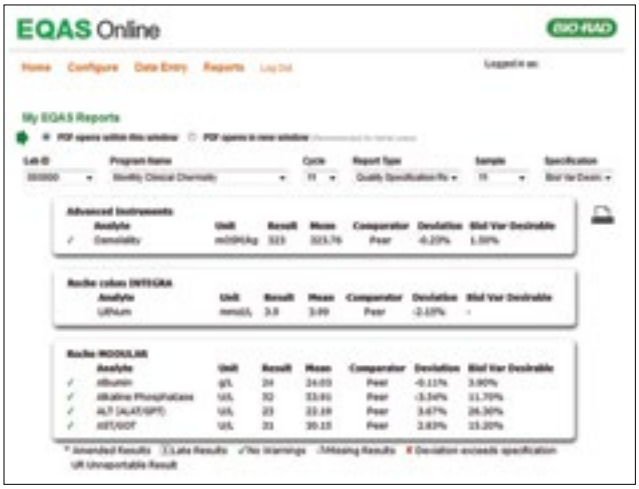
End-of-Cycle Report

An overall assessment of laboratory performance over the entire cycle in terms of bias among participating laboratories is presented.

Qualitative Report

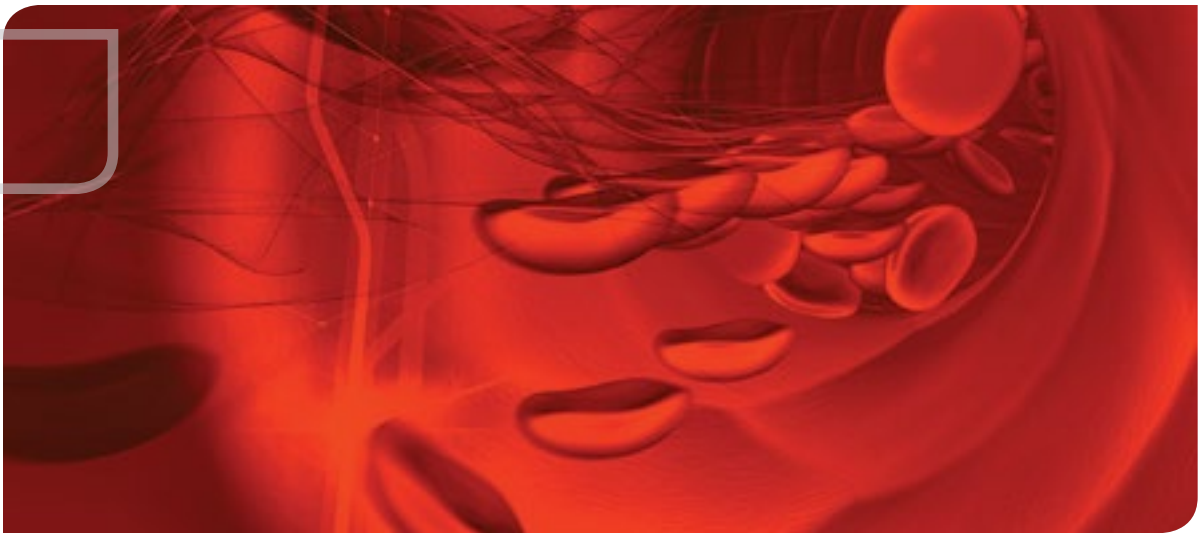
Sample Report

These reports provide clear and concise information about your qualitative test laboratory performance in the form of histograms and modified Levey-Jennings charts. They include detailed information about the distribution of the qualitative responses and the peer group consensus.



Quality Specification Report

An evaluation, in terms of percentage deviation, against set performance criteria from key regulatory and scientific organizations (ex. CLIA, BV, RCPA, IQMH, GOST and RiliBÄK), is available online for each sample analyte.



Hematology Controls

Hematology controls for multi-parameter analysis across a wide variety of instrument platforms

Hematology Controls

Liquichek Hematology Control (A) 42
Liquichek Reticulocyte Control (A) 42
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Additional Information

Controls for Popular Instruments Chart 48

Did You Know?

- **Bio-Rad offers** Hematology controls optimized for Abbott, Beckman Coulter, Siemens and Sysmex test systems

For More Information

- **Booklet** Hematology and Coagulation Controls (Q-1523)

Please note that not all products may be available in all countries.

Liquichek Hematology Control (A)

- Provides assayed values for the Abbott CELL-DYN 3200, 3500, and CELL-DYN Ruby analyzers with 3-part and 5-part differential technology
- Blood cells in plasma-like fluid
- 78 day shelf life at 2–8°C
- 8 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
865	Trilevel (4 of each level) . . . . . 12 x 3 mL
866	Low . . . . . 4 x 3 mL
867	Normal . . . . . 4 x 3 mL
868	High . . . . . 4 x 3 mL
865X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Parameters

Basophils (BASO)
% Basophils
Eosinophils (EOS)
% Eosinophils
Granulocytes (GRAN)
Hematocrit (HCT)
Hemoglobin (Total)
Lymphocytes (LYMPH)
% Lymphocytes
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
MID
Monocytes (MONO)
% Monocytes
Neutrophils (NEUT)
% Neutrophils
Nucleated Red Blood Cells (NRBC)
Nucleated Red Blood Cells/100 WBC (NRBC/WBC%)
Platelecrit (PCT)*
Platelet Volume Distribution Width (PDW)*
Platelets (PLT)
Platelets Impedance Method (PLTi)
Red Blood Cell Distribution Width (RDW)
Red Blood Cells (RBC)
Red Blood Cells, Optical (RBCo)
White Blood Cells (WBC)
- White Optical Count (WOC)
- White Impedance Count (WIC)
- Nucleated Optical Count (NOC)

*Values reported by the analyzer are not for diagnostic use

Liquichek Reticulocyte Control (A)

- Assayed whole blood reticulocyte control for use with the Abbott CELL-DYN 3200 analyzers
- Assayed values also included for manual methods
- Red cells suspended in plasma-like fluid
- 75 day shelf life at 2–8°C
- 16 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
854	Level 1 . . . . . 4 x 3 mL
855	Level 2 . . . . . 4 x 3 mL
855X	Bilevel MiniPak (1 of each level) . . . . . 2 x 3 mL

Liquichek Reticulocyte Control (A-I)

- Assayed reticulocyte control for use with the CELL-DYN Sapphire hematology analyzer
- Assayed values also provided for manual methods
- Red cells suspended in plasma-like fluid
- 78 day shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
916	Level 1 . . . . . 4 x 3 mL
917	Level 2 . . . . . 4 x 3 mL
915X	Bilevel MiniPak (1 of each level) . . . . . 2 x 3 mL

Parameters for Liquichek Reticulocyte Control (A) and Liquichek Reticulocyte Control (A-I)

Immature Reticulocyte Fraction (IRF)
Red Blood Cells (RBC)*
Reticulocyte (Retic)

*Available in Liquichek Reticulocyte Control (A-1) only.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Hematology Control (C)

- Assayed hematology control for monitoring values obtained on Beckman Coulter hematology analyzers with complete CBC and VCS 5-part differential technology
- Assayed values for the UniCel DxH 600/800, LH 500 and LH 700 analyzers
- Blood cells suspended in plasma-like fluid
- 105 day shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C or 14 thermal cycles, whichever comes first

Ordering Information

Cat #	Description
904	Trilevel (4 of each level) . . . . . 12 x 5 mL
905	Low . . . . . 4 x 5 mL
906	Normal . . . . . 4 x 5 mL
907	High . . . . . 4 x 5 mL
904X	Trilevel MiniPak (1 of each level) . . . . . 3 x 5 mL

Parameters

Basophils (BA)
Eosinophils (EO)
Hematocrit (HCT)
Hemoglobin (HGB)
Lymphocytes (LY)
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
Monocytes (MO)
Neutrophils (NE)
Platelecrit (PCT)*
Platelet Distribution Width (PDW)*
Platelets (PLT)
RDW-SD[1]
Red Blood Cell Distribution Width (RDW)
Red Blood Cells (RBC)
White Blood Cells (WBC)

*Values reported by analyzer are not for diagnostic use.
[1]For Beckman Coulter LH and Unicel DxH 600/800 only.

Liquichek Reticulocyte Control (C)

- Assayed hematology control for monitoring values obtained on Beckman Coulter analyzers using VCS technology.
- Red cells suspended in plasma-like fluid
- 14 day open-vial stability at 2–8°C
- 75 day shelf life at 2–8°C

Ordering Information

Cat #	Description
826	Level 1 . . . . . 4 x 4 mL
827	Level 2 . . . . . 4 x 4 mL
828	Level 3 . . . . . 4 x 4 mL
827X	Trilevel MiniPak (1 of each level) . . . . . 3 x 4 mL

Parameters

Immature Reticulocyte Fraction (IRF)
Mean Reticulocyte Volume (MRV)
Red Blood Cells (RBC)
Reticulocyte (Retic)

Why use a Combination Hematology/Reticulocyte control if you really don't need it?
Use one of Bio-Rad's separate Liquichek Reticulocyte Controls when you need one.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Hematology Control (S)

- An assayed hematology control for monitoring values obtained on Siemens analyzers with 3-part and 5-part differential technology
- Blood cells suspended in plasma-like fluid
- 80 day shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
449	Trilevel (4 of each level) . . . . . 12 x 3.5 mL
449X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3.5 mL

Parameters

Basophils (BASO)
Cellular Hemoglobin Concentration Mean (CHCM)
Eosinophils (EOS)
Hematocrit (HCT)
Hemoglobin (HGB)
Hemoglobin Concentration Distribution Width (HDW)
Large Unstained Cells (LUC)
Lymphocytes (LYMPH)
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
Monocytes (MONO)
NEUT X
NEUT Y
Neutrophils (NEUT)
Platelets (PLT)
Red Blood Cell Distribution Width (RDW)
Red Blood Cells (RBC)
White Blood Cells (WBC)
White Blood Cells Counts Measured in Perox Channel (WBCP Perox)

Liquichek Reticulocyte Control (S)

- Assayed hematology control monitoring values obtained on Siemens analyzers with automated reticulocyte counting methods
- Red cells suspended in plasma-like fluid
- 80 day shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
921	Level 1 . . . . . 4 x 4 mL
922	Level 2 . . . . . 4 x 4 mL
923	Level 3 . . . . . 4 x 4 mL
922X	Trilevel MiniPak (1 of each level) . . . . . 3 x 4 mL

Parameters

Cellular Hemoglobin Concentration Mean of Gated Red Blood Cells (CHCMg)
Cellular Hemoglobin Concentration Mean of Reticulocytes (CHCMr)
Mean Corpuscular Volume of Gated Red Blood Cells (MCVg)
Mean Corpuscular Volume of Reticulocytes (MCVr)
Mean Hemoglobin Content of All Gated Red Cells (CHg)
Mean Hemoglobin Content of Reticulocytes (CHr)
Reticulocyte (Retic)
Total Red Blood Cell Counts in Retic Channel (Retic RBC)

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Hematology Control (X)

- An assayed hematology control for use with Sysmex hematology analyzers with 5-part differential technology
- Blood cells in plasma-like fluid
- 80 day shelf life at 2–8°C
- Stable for 15 days open-vial or 15 samplings, whichever comes first, when stored at 2–8°C

Ordering Information

Cat #	Description
487	Trilevel (4 of each level) . . . . . 12 x 4.5 mL
487X	Trilevel MiniPak (1 of each level) . . . . . 3 x 4.5 mL

Parameters

Basophils (BASO)
Eosinophils (EOS)
Hematocrit (HCT)
Hemoglobin (HGB)
Lymphocytes (LYMPH)
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
Monocytes (MONO)
Neutrophils (NEUT)
Nucleated Red Blood Cells (NRBC)*
Platelets (PLT)
Platelets, Optical Count (PLT-o)*
Red Blood Cell Distribution Width-CV (RDW-CV)
Red Blood Cell Distribution Width-SD (RDW-SD)
Red Blood Cells (RBC)
White Blood Cells (WBC)

*No claims made for expected value or stability.

Liquichek Reticulocyte Control (X)

- Assayed reticulocyte control for use with Sysmex hematology analyzers with automated reticulocyte counting methods
- Red cells suspended in plasma-like fluid
- 80 day shelf life at 2–8°C
- Stable for 15 days open-vial or 15 samplings, whichever comes first, when stored at 2–8°C

Ordering Information

Cat #	Description
926	Level 1 . . . . . 4 x 3 mL
927	Level 2 . . . . . 4 x 3 mL
928	Level 3 . . . . . 4 x 3 mL
927X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Parameters

Immature Reticulocyte Fraction (IRF)
Red Blood Cells (RBC)
Reticulocyte (Retic)

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Hematology-16 Control

- Specifically designed for use on most hematology analyzers that measure up to 16 parameters and 3-part white blood cell differentials
- Can be used on either manual sampling or automatic cap-piercing instruments
- Assayed for most 2-16 parameter instruments
- Blood cell suspension
- 160 day shelf life at 2–8°C
- 21 day open-vial stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
760	Trilevel (2 of each level) . . . . . 6 x 3 mL
761	Low . . . . . 6 x 3 mL
762	Normal. . . . . 6 x 3 mL
763	High. . . . . 6 x 3 mL
760X	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Parameters

Granulocytes (GRAN)
Hematocrit (HCT)
Hemoglobin (HGB)
Lymphocytes (LYMPH)
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
Mid-Sized Cells (MID)
Monocytes (MONO)
Platelets (PLT)
Red Blood Cell Distribution Width (RDW)
Red Blood Cells (RBC)
White Blood Cells (WBC)

Liquichek Hematology-16T Control

- A hematology reference control used in monitoring determinations of blood cell values on Sysmex and Abbott 3-part differential hematology analyzers
- Blood cells in plasma-like fluid
- 105 day shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
144	Trilevel (4 of each level). . . . . 12 x 2.5 mL
144X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2.5 mL

Parameters

Granulocytes (GRAN)
Hematocrit (HCT)
Hemoglobin (Total)
LYMPH (W-SCC & W-SCR)
Lymphocytes (LYMPH)
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Mean Platelet Volume (MPV)
MID
MXD (W-MCC & W-MCR)
NEUT (W-LCC & W-LCR)
Platelets (PLT)
Red Blood Cell Distribution Width (RDW)
Red Blood Cell Distribution Width-CV (RDW-CV)
Red Blood Cell Distribution Width-SD (RDW-SD)
Red Blood Cells (RBC)
Spun Hematocrit (Spun HCT)
White Blood Cells (WBC)

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Sedimentation Rate Control

- Bilevel, human whole blood control designed to monitor the precision of both manual and automated methods for measuring erythrocyte sedimentation rates
- Assayed for over 20 automated and manual methods, including Westergren and Wintrobe
- Stabilized human red blood cells in suspensions
- 31 day open-vial stability at 18–30°C
- 540 day shelf life at 18–30°C

Ordering Information

Cat #	Description
514	Level 1 . . . . . 4 x 9 mL
515	Level 2 . . . . . 4 x 9 mL
514X	Bilevel MiniPak (1 of each level) . . . . . 2 x 9 mL

Parameter

Erythrocyte Sedimentation Rate (ESR)

Liquichek Sedimentation Rate Control may be used with the following instruments and test methods

- BD Seditainer
- Diesse Mini-Ves
- Diesse Ves-Matic 10
- Diesse Ves-Matic 20/20 Plus
- Diesse Ves-Matic 30/30 Plus
- Diesse Ves-Matic 60/60 Plus
- Diesse Ves-Matic Cube 30
- Diesse Ves-Matic Cube 80/200
- Kimble-Chase Disposable Westergren Tubes
- Vital Diagnostics Excyte M, 10, 20, 40
- Vital Diagnostics Excyte Mini
- Vital Diagnostics MICROsed-System
- Vital Diagnostics Monitor Series
- Polymedco Sedimat 60
- Polymedco Sediplast
- RR Mechatronics StaRRsed
- Sarstedt S-Sedivette
- Streck ESR-Auto Plus
- Westergren (Modified)
- Wintrobe

If your instrument model is not listed, please contact your nearest Bio-Rad office for current information.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Use Bio-Rad's Hematology Controls on these popular instruments

- ■ Use for CBC and 5-Part Differential Parameters
- ▲ Use for CBC and 3-Part Differential Parameters
- ◆ Use for Reticulocyte Counts
- ◗ Use for CBC Parameters Only
- ❖ Use for Manual Methods
- ✔ POCT Methods Available

Manufacturer/Instrument(s)	Hematology (A)	Reticulocyte (A)	Reticulocyte (A-I)	Hematology (C)	Reticulocyte (C)	Hematology (S)	Reticulocyte (S)	Hematology (X)	Reticulocyte (X)	Hematology-16	Hematology-16T
Abbott Diagnostics											
CELL-DYN 1800											▲
CELL-DYN 3000/ 3200	■	◆									
CELL-DYN 3500/3700	■										
CELL-DYN Ruby	■	◆									
CELL-DYN Sapphire	■		◆								
CELL-DYN Emerald	■									▲	
HORIBA ABX Diagnostics											
Micros 60										▲	
Beckman Coulter											
AcT DIFF/AcT DIFF2										▲	
AcT 5DIFF/UniCell DxH 600/800				■							
LH 500/700 Series				■	◆					◗	
ERMA											
PCE 210										▲	
FORTRESS											
CELLDIFF-3										▲	
Medonic											
M-Series										▲	
Mindray											
BC-2600/2800										▲	
BC-3000CT/3200/3000 PLUS										▲	
Samsung											
Geo										▲	
Siemens											
ADVIA 60						▲					
ADVIA 120/2120/2120i						■	◆				
Sysmex											
KX-21											▲
XE-2100/XE-5000								■	◆	◗	
XN Series								■	◆		
XS-800i/XS-1000i								■	◆	◗	
XT-4000i								■	◆	◗	
XT-1800i/XT 2000i								■		◗	
Other											
Manual Methods	❖		❖			❖				❖	❖
POCT Methods										✔	

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Immunoassay Controls

Bio-Rad Immunoassay Controls offer over 200 analytes for routine and specialty assays

Immunoassay Controls

Liquichek Immunoassay Plus Control 50
Lyphochek Immunoassay Plus Control 51
Liquichek Specialty Immunoassay Control 52
Lyphochek Specialty Immunoassay Control 52
Liquichek Tumor Marker Control 53
Lyphochek Tumor Marker Plus Control 53
Liquichek AMH Control 54
Lyphochek Fertility Control 54
Liquichek Maternal Serum 1st Trimester Control 54
Liquichek Maternal Serum II Control 54
Lyphochek Anemia Control 55
Lyphochek Hypertension Markers Control. 55
Lyphochek Endocrine Control 55
Lyphochek Urine Bone Markers Control 56

Additional Information

Controls for Popular Instruments Chart 56

See Also

- **Pages 73-78** InteliQ Quality Control Products
- **Page 85** Liquichek Immunoassay Premium Control
- **Pages 93-98** QC Products in Dimension Vista Vials

Did You Know?

- **Many Bio-Rad** multi-analyte immunoassay controls have analyte target values at or near clinical decision levels

For More Information

- **Brochure** Independent Quality Control (Q-1128)
- **Booklet** Bio-Rad Quality Control Products in Dimension Vista Vials (Q-1214)
- **Brochure** Premium Controls for Immunochemistry (Q-1215)
- **Brochure** Tumor Marker Controls (Q-1556)
- **Brochure** InteliQ (Q-1665)

Please note that not all products may be available in all countries.

Liquichek Immunoassay Plus Control

- Offers a vast array of popular routine immunoassay analytes
- Assigned values are available for all major automated analyzers
- Provides a highly efficient solution for laboratories that focus on routine tests
- Liquid, human serum based
- 2 year shelf life at -20ºC to -70ºC
- 14 day open-vial stability at 2-8ºC for most analytes

POCT Methods Listed

Ordering Information

Cat #	Description
360	Trilevel (4 of each level) . . . . . 12 x 5 mL
361	Level 1 . . . . . 12 x 5 mL
362	Level 2 . . . . . 12 x 5 mL
363	Level 3 . . . . . 12 x 5 mL
360X	Trilevel MiniPak (1 of each level) . . . . . 3 x 5 mL

For Liquichek tube control, see page 77.
For Liquichek Immunoassay Premium Control, see page 85.
For Dimension Vista vials, see page 96.

Analytes

11-Deoxycortisol*
17-α-Hydroxyprogesterone**
25-Hydroxy Vitamin D*
Acetaminophen
Aldosterone
Alphafetoprotein (AFP)
Amikacin
Amiodarone*
Amitriptyline*
Androstenedione
Angiotensin I*
Anti-Thyroglobulin (Anti-Tg)*
Anti-Thyroperoxidase (Anti-TPO)*
Caffeine
Carbamazepine
Carbamazepine (Free)**
CEA
Chloramphenicol**
CK-MB Isoenzyme
Cortisol
Cyclosporine
Dehydroepiandrosterone (DHEA)*
Desipramine**
DHEA Sulfate
Digoxin
Disopyramide**
Estradiol
Estriol (Free)
Estriol (Total)*
Estrogen (Total)**
Ethosuximide
Ferritin
Flecainide**
Folate
Fructosamine**
FSH
Gentamicin
hCG
hCG-β Subunit
hGH
Ibuprofen
Imipramine*
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Insulin
Iron
Iron (TIBC)*
LH
Lidocaine
Lithium
N-Acetylprocainamide (NAPA)
Netilmicin*
Nortriptyline
PAP
Phenobarbital
Phenytoin
Phenytoin (Free)**
Primidone
Procainamide**
Progesterone
Prolactin
Propranolol
PSA
PSA (Free)
PTH-MM*
Quinidine
Salicylate
SHBG (Sex Hormone Binding Globulin)
Somatomedin-C*
T3 (Free)
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
TBG
Testosterone
Testosterone (Free)
Theophylline
Thyroglobulin (Tg)*
Tobramycin
Tricyclic Antidepressants (TCA) Screen
TSH
Valproic Acid**
Valproic Acid (Free)
Vancomycin
Vitamin B_{12}

*No claims are made regarding performance or stability.
**Values are not provided.

Did you know. . .
Liquichek Immunoassay Plus Control has value assignment data available for all major instruments. It also offers a large worldwide peer group for interlaboratory comparison.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Immunoassay Plus Control

- Offers a vast array of popular routine immunoassay analytes
- Assigned values are available for all major automated analyzers
- Provides a highly efficient solution for laboratories that focus on routine tests
- Human serum based
- 3 year shelf life at 2–8°C
- 7 day reconstituted stability at 2–8°C for most analytes

POCT Methods Listed

Ordering Information

Cat #	Description	
370	Trilevel (4 of each level)	12 x 5 mL
371	Level 1	12 x 5 mL
372	Level 2	12 x 5 mL
373	Level 3	12 x 5 mL
370X	Trilevel MiniPak (1 of each level)	3 x 5 mL

Analytes

25-Hydroxy Vitamin D
11-Deoxycortisol
17-α-Hydroxyprogesterone
Acetaminophen
ACTH
Aldosterone
Alphafetoprotein (AFP)
Amikacin
Amiodarone*
Amitriptyline
Androstenedione
Angiotensin I
Anti-Thyroglobulin (Anti-Tg)*
Anti-Thyroperoxidase (Anti-TPO)*
C-Peptide
Caffeine
Calcitonin
Carbamazepine
Carbamazepine (Free)**
CEA
Chloramphenicol
Cortisol
Cyclosporine*
Dehydroepiandrosterone (DHEA)
Desipramine**
DHEA Sulfate
Digoxin
Disopyramide
Estradiol
Estriol (Free)
Estriol (Total)*
Estrogen (Total)
Ethosuximide
Ferritin
Flecainide**
Folate
Fructosamine**
FSH
Gastrin
Gentamicin
Glucagon*
hCG
hCG-β Subunit
hGH
Imipramine
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Immunoreactive Trypsinogen (IRT)*
Insulin
Iron
Iron (TIBC)
LH
Lidocaine
Lithium
N-Acetylprocainamide (NAPA)
Netilmicin*
Nortriptyline
PAP
Phenobarbital
Phenytoin
Phenytoin (Free)**
Primidone
Procainamide
Progesterone
Prolactin
Propranolol**
PSA
PSA (Free)
PTH (Intact)*
Quinidine**
Salicylate
SHBG (Sex Hormone Binding Globulin)*
Somatomedin-C
T3 (Free)
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
TBG
Testosterone
Testosterone (Free)
Theophylline
Thyroglobulin (Tg)
Tobramycin
Tricyclic Antidepressants (TCA) Screen**
TSH
Valproic Acid
Valproic Acid (Free)**
Vancomycin
Vitamin B_{12}

*No claims are made regarding performance or stability.
**Values are not provided.

Did you know. . .
The Lyophilized form of this control provides convenience in transportation and a longer shelf life.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Specialty Immunoassay Control

- Offers complex, high usage specialty immunoassay analytes for laboratories conducting specialty testing in support of operating/emergency rooms, hospitals and physician offices
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2–8°C for most analytes

Ordering Information

Cat #	Description
359	Level LTA . . . . . 6 x 5 mL
364	Level 1 . . . . . 6 x 5 mL
365	Level 2 . . . . . 6 x 5 mL
366	Level 3 . . . . . 6 x 5 mL
359X	Four Level MiniPak (1 of each level) . . . . . 4 x 5 mL

For InteliQ Specialty Immunoassay Control, see page 76.

Analytes

25-Hydroxy Vitamin D
Anti-Thyroglobulin (Anti-Tg)
Anti-Thyroperoxidase (Anti-TPO)
C-Peptide
Erythropoietin (EPO)
Insulin Growth Factor I (IGF-I)
Intact PTH
Osteocalcin

Lyphochek Specialty Immunoassay Control

- Includes popular analytes with increasing clinical utilization
- Human serum based
- 3 year shelf life at 2–8°C
- 30 day reconstituted stability at 2–8°C for most analytes

Ordering Information

Cat #	Description
27124	Level 1 . . . . . 6 x 2 mL
27125	Level 2 . . . . . 6 x 2 mL
27126	Level 3 . . . . . 6 x 2 mL
27125X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analytes

25-Hydroxy Vitamin D
Erythropoietin (EPO)
Intact PTH
Procalcitonin
Sex Hormone Binding Globulin (SHBG)

Specialty Immunoassay Controls Analyte Comparison

	Liquid	Lyophilized
25-Hydroxy Vitamin D	●	●
Anti-Thyroglobulin (Anti-Tg)	●	
Anti-Thyroperoxidase (Anti-TPO)	●	
C-Peptide	●	
Erythropoietin (EPO)	●	●
Insulin Growth Factor I (IGF-I)	●	
Intact PTH	●	●
Osteocalcin	●	
Procalcitonin		●
SHBG (Sex Hormone Binding Globulin)		●

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Tumor Marker Control

- An assayed, multi-analyte control
- Includes low PSA levels for high sensitivity methods and high levels of cancer antigens and Ferritin
- Human based
- 2 year shelf life when stored frozen at -20ºC to -70ºC
- 30 day open-vial stability at 2–8°C for most analytes

Ordering Information

Cat #	Description	
547	Level 1	6 x 2 mL
548	Level 2	6 x 2 mL
549	Level 3	6 x 2 mL
548X	Trilevel MiniPak (1 of each level)	3 x 2 mL

Lyphochek Tumor Marker Plus Control

- A comprehensive, assayed, multi-analyte control
- Ideal for monitoring both routine and esoteric tumor marker testing
- Human serum based
- 3 year shelf life at 2-8°C
- 14 day reconstituted stability at 2–8°C for most analytes

Ordering Information

Cat #	Description	
367	Level 1	6 x 2 mL
368	Level 2	6 x 2 mL
369	Level 3	6 x 2 mL
368X	Trilevel MiniPak (1 of each level)	3 x 2 mL

For InteliQ Tumor Marker Control, see page 76.

For Dimension Vista vials, see page 98.

Analytes for Liquichek Tumor Marker and Lyphochek Tumor Marker Plus Controls

	Liquid	Lyophilized
β-2-Microglobulin	●	●
ACTH		●
Aldosterone		●
Alphafetoprotein (AFP)	●	●
CA 15-3	●	●
CA 19-9	●	●
CA 27.29	●	●
CA 50*		●
CA 72-4*	●	●
CA 125	●	●
Calcitonin		●
Carcinoembryonic Antigen (CEA)	●	●
CASA*[1]		●
Cyfra 21-1*	●	●
Ferritin	●	●
hCG	●	●
hCG-β Subunit	●	●
HE4	●	
HER2/neu	●	
Insulin Growth Factor I (IGF-I)	●	
Neuron Specific Enolase (NSE)*		●
PAP	●	●
ProGRP*	●	
Prolactin	●	●
PSA	●	●
PSA (Free)	●	●
S-100*		●
SCC*	●	
Thyroglobulin (Tg)	●	●

*International use only. Not available for diagnostic use in the United States.
[1]No claim is made for expected values or stability.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek AMH Control

- Liquid convenience to reduce handling errors
- Three levels targeted at low, medium and high clinically-relevant ranges
- Human base to more closely resemble a patient sample
- 26 month shelf life at -20ºC to -70°C
- 14 day open-vial stability at 2-8°C

Ordering Information

Catalog #	Description
12006327	Trilevel (2 of each level) . . . . . 6 x 2 mL

Analyte

Anti-Mullerian Hormone

Lyphochek Fertility Control

- Designed to monitor the precision of tests performed for fertility or pregnancy
- Elevated hCG and hCG-β Subunit levels allow laboratories to monitor their dilution procedure
- Human serum based
- 3 year shelf life at 2–8°C
- 7 day reconstituted stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
480	Trilevel (4 of each level). . . . . 12 x 5 mL
481	Level 1 . . . . . 12 x 5 mL
482	Level 2 . . . . . 12 x 5 mL
483	Level 3 . . . . . 12 x 5 mL
480X	Trilevel MiniPak (1 of each level) . . . . . 3 x 5 mL

Analytes

Alphafetoprotein (AFP)
Digitoxin
Estradiol
Estriol (Free)
Estriol (Total)*
Ferritin
FSH
hCG
hCG-β Subunit
LH
Progesterone
Testosterone

*No claims are made regarding performance or stability.

Liquichek Maternal Serum 1st Trimester Control

- Liquid, assayed quality control
- Designed to monitor the precision of immunoassay test methods used during maternal serum first trimester screening
- Includes clinically relevant levels of Free beta hCG and PAPP-A
- Human serum based
- 2 year shelf life at -20ºC to -70ºC
- 15 day open-vial stability at 2–8ºC

Available outside the United States only

Ordering Information

Catalog #	Description
636	Trilevel (2 of each level) . . . . . 6 x 1 mL
636X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

Analytes

hCG
hCG-β Subunit (Free)
PAPP-A

Liquichek Maternal Serum II Control

- Liquid, assayed quality control serum
- Analytes at clinically significant levels to monitor the precision of maternal serum analysis
- Human serum
- Includes the hormone Inhibin A
- Very elevated hCG
- Very low levels of Free Estriol and AFP

Ordering Information

Catalog #	Description
402	Level 1 . . . . . 6 x 2.5 mL
403	Level 2 . . . . . 6 x 2.5 mL
404	Level 3 . . . . . 6 x 2.5 mL
403X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2.5 mL

Analytes

AFP
hCG
Free Estriol
Inhibin A

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Anemia Control

- Monitors test precision at clinically significant low/deficient values for anemia-related analytes
- Human serum based
- 3 year shelf life at 2–8°C
- 14 day reconstituted stability at 2–8°C for most analytes

Ordering Information

Cat #	Description
500	Single Level . . . . . 6 x 3 mL
500X	MiniPak . . . . . 1 x 3 mL

Analytes

Ferritin
Folate
Iron
Iron (TIBC)
Iron (UIBC)
Transferrin
TSH
Vitamin B_{12}

Lyphochek Hypertension Markers Control

- Provides relevant values in monitoring precision for analytes specific to hypertension disorders
- Human serum based
- 2 year shelf life at 2–8°C
- 21 day reconstituted stability at 2–8°C for most analytes

Ordering Information

Catalog #	Description
600	Trilevel (2 of each level) . . . . . 6 x 2 mL
600X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analytes

ACTH
ADH*
Aldosterone
Cortisol
Renin

*No claims are made regarding performance or stability.

Lyphochek Endocrine Control

- Monitors the test precision of a unique set of endocrine-related analytes in serum-based matrix
- Human serum based
- 2 year shelf life at 2–8°C
- 3 day reconstituted stability at 2–8°C

Ordering Information

Catalog #	Description
535	Bilevel (6 of each level) . . . . . 12 x 10 mL
535X	Bilevel MiniPak (1 of each level) . . . . . 2 x 10 mL

Analytes

Dopamine
Epinephrine
Norepinephrine

Did you know. . .
That Lyphochek Anemia Control provides ultra low TSH values?

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Urine Bone Markers Control

- Contains analytes in a urine based matrix for monitoring the precision of tests performed for osteoporosis bone resorption management
- Human urine based
- 3 year shelf life at 2–8°C
- 14 day reconstituted stability at 2–8°C

Ordering Information

Catalog #	Description
406	Bilevel (3 of each level) . . . . . 6 x 2 mL
406X	Bilevel MiniPak (1 of each level) . . . . . 2 x 2 mL

Analytes

β-2-Microglobulin*
C-Telopeptide (CTx)
Creatinine
Deoxypyridinoline (DPD)
N-Telopeptide (NTx)
Pyridinium Crosslinks (DPD + PYD)
Pyridinoline (PYD)*

*No claims are made for expected values or stability.

Use Bio-Rad's Immunoassay Controls on these popular instruments

Manufacturer/Instrument(s)	AMH	Anemia	Fertility	Hypertension Markers	Immunoassay Plus (Liquid & Lyophilized)	Maternal Serum 1st Trimester	Maternal Serum II	Specialty Immunoassay (Liquid & Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)
Abbott Diagnostics										
ARCHITECT Series		●	●		●		●	●	●	●
Beckman Coulter										
Access Series 2/2i/LX i/UniCel DxI/DxC	●	●	●		●	●	●	●	●	●
AU Series		●			●					
BioMérieux										
VIDAS	●				●			●	●	●
DiaSorin										
LIAISON/LIASON XL					●			●	●	●
Ortho Clinical Diagnostics										
VITROS Series		●			●			●		
VITROS ECi/Microwell Series		●	●		●		●	●		●
Roche Diagnostics										
Cobas 6000 Series/COBAS INTEGRA		●	●		●			●	●	●
Cobas e Systems	●									
e170	●									
Elecsys Systems	●	●	●		●	●	●	●	●	●
Hitachi Systems		●			●					
MODULAR Systems		●			●					
Siemens										
ADVIA Series		●			●			●		
ADVIA Centaur Series		●	●	●	●	●	●	●	●	●
Atellica Solution					●			●	●	
BN Series					●					
Dimension Vista		●	●		●		●		●	
Dimension Series		●	●		●				●	●
IMMULITE Series		●	●	●	●	●	●	●	●	●
Stratus			●							
Tosoh										
AIA Series		●	●		●			●	●	●
Other										
POCT Methods			●							

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Immunology/Protein Controls

Immunology/Protein assays: the more sample types you run, the more you'll want Bio-Rad QC

Immunology/Protein Controls

Liquichek Immunology Control 58
Lyphochek Immunology Plus Control 58
Liquichek Elevated CRP Control 59
Liquichek Rheumatoid Factor Control 59
Liquichek Spinal Fluid Control 60
Lyphochek Allergen sIgE Control 60
Liquichek Autoimmune Controls 61

Additional Information

Target CRP Levels in Bio-Rad Controls 59
Controls for Popular Instruments Chart 62

See Also

- **Pages 73-78** InteliQ Quality Control Products
- **Pages 93-98** QC Products in Dimension Vista vials

Did You Know?

- **Immunological proteins** can indicate disorders of the immune system through either elevated or reduced concentrations
- **An intricate interaction** of multiple proteins plays a part in the pathology and clinical systems of a disorder

For More Information

- **Brochure** Comprehensive Quality Control for Immunology (Q-1220)
- **Booklet** Bio-Rad Quality Control Products in Dimension Vista Vials (Q-1214)
- **Brochure** InteliQ (Q-1665)

Please note that not all products may be available in all countries.

Liquichek Immunology Control

- Provides assayed values for most major integrated immunoassay platforms
- Contains more than 30 serum proteins and analytes, including Anti-Cyclic Citrullinated Peptide (Anti-CCP) and Rheumatoid Factor
- Liquid, human serum based
- 2 year shelf life at -20ºC to -70°C
- 30 day open-vial stability at 2–8°C for most analytes

POCT Methods Listed

Ordering Information

Cat #	Description
591	Level 1 . . . . . 6 x 1 mL
592	Level 2 . . . . . 6 x 1 mL
593	Level 3 . . . . . 6 x 1 mL
590X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL
594	Level 1 . . . . . 6 x 3 mL
595	Level 2 . . . . . 6 x 3 mL
596	Level 3 . . . . . 6 x 3 mL

For Liquichek tube control see page 78.

For Dimension Vista vials, see page 96.

Analytes

α-1-Acid Glycoprotein
α-1-Antitrypsin
α-2-Macroglobulin
β-2-Microglobulin
ADNase B
Albumin
Anti-Cyclic Citrullinated Peptide (Anti-CCP)
Antistreptolysin O (ASO)
Antithrombin III (AT III)
Apolipoprotein A-1
Apolipoprotein B
C1 Inhibitor
Ceruloplasmin
CH50*
Complement C3
Complement C4
CRP
Cystatin C[1]
Ferritin
Haptoglobin
Hemopexin*
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin G Subclasses 1–4
Immunoglobulin M (IgM)
Kappa Light Chain
Lambda Light Chain
Lipoprotein (a)
Prealbumin
Properdin Factor B**
Protein (Total)
Retinol Binding Protein (RBP)
Rheumatoid Factor
Soluble Transferrin Receptor (sTfR)*
Transferrin

*No claims are made regarding performance or stability.
**Values are not provided.
[1]Endogenous levels only.

Lyphochek Immunology Plus Control

- Contains 22 serum proteins and related analytes
- Lyophilized, human serum based
- 3 year shelf life at 2–8°C
- 15 day reconstituted stability at 2–8°C

POCT Methods Listed

Ordering Information

Cat #	Description
430	Bilevel (6 of each level) . . . . . 12 x 1 mL
430X	Bilevel MiniPak (1 of each level) . . . . . 2 x 1 mL

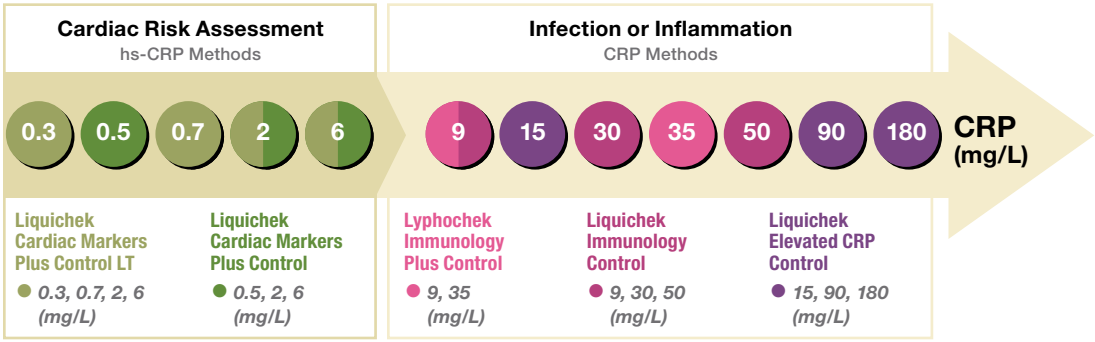
Analytes

α-1-Acid Glycoprotein
α-1-Antitrypsin
α-2-Macroglobulin
β-2-Microglobulin
Albumin
Antistreptolysin O (ASO)
Ceruloplasmin
Complement C1q*
Complement C3
Complement C4
CRP
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Kappa Light Chain
Lambda Light Chain
Prealbumin
Retinol Binding Protein (RBP)
Rheumatoid Factor
Transferrin

*No claims are made regarding performance or stability.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Target CRP Levels in Bio-Rad Controls



Values reflect typical assayed values for these products. Recovered values may vary depending on methodology.

Liquichek Elevated CRP Control

- For monitoring the precision of C-Reactive Protein (CRP) assays as a general marker for infection and inflammation
- Target CRP levels of 15, 90 and 180 mg/L
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2-8°C

Ordering Information

Cat #	Description
254	Level 1 . . . . . 12 x 1 mL
255	Level 2 . . . . . 12 x 1 mL
256	Level 3 . . . . . 12 x 1 mL
255X	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

Analyte

CRP

Liquichek Rheumatoid Factor Control

- For monitoring the precision of Rheumatoid Factor testing procedures including nephelometric and latex agglutination methods
- Target Rheumatoid Factor levels of 34, 79 and 150 U/mL
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
501	Level 1 . . . . . 6 x 2 mL
502	Level 2 . . . . . 6 x 2 mL
503	Level 3 . . . . . 6 x 2 mL
502X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analyte

Rheumatoid Factor

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Spinal Fluid Control

- Multi-analyte control with relevant concentrations for cerebrospinal fluid tests
- Level 2 positive for oligoclonal bands, used as an aid in diagnosing Multiple Sclerosis
- Liquid, human based
- 2 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
751	Level 1 . . . . . 6 x 3 mL
752	Level 2 . . . . . 6 x 3 mL
750X	Bilevel MiniPak (1 of each level) . . . . . 2 x 3 mL

For Dimension Vista vials, see page 60.

Analytes

Albumin
Chloride
Glucose
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
Protein (Total)
Protein Electrophoresis*
Sodium

*Prealbumin, Albumin, α-1-Globulin, α-2-Globulin, β-Globulin, γ-Globulin.

Lyphochek Allergen sIgE Control

- Multi-analyte control designed to monitor the precision of *in vitro* allergy test systems
- Provides assayed values for 15 commonly tested allergen-specific IgE antibodies
- Insert listings for fully-automated allergy diagnostic test systems
- Human sourced material
- 3 year shelf life at 2-8ºC
- 28 day reconstituted stability at 2-8ºC

Ordering Information

Cat #	Description
12000141	Negative . . . . . 6 x 2 mL
12000142	Panel A . . . . . 6 x 2 mL
12000143	Negative MiniPak . . . . . 1 x 2 mL
12000144	Panel A MiniPak . . . . . 1 x 2 mL

Analytes

D1 House Dust Mite *(Dermatophagoides pteronyssinus)*
D2 House Dust Mite *(Dermatophagoides farinae)*
E1 Cat Dander *(Felis domesticus)*
E3 Horse Dander *(Equus caballus)*
E5 Dog Dander *(Canis familiaris)*
F1 Egg White *(Gallus spp.)*
F2 Cow Milk *(Bos. spp.)*
F13 Peanut *(Arachis hypogaea)*
G2 Bermuda Grass *(Cynodon dactylon)*
G3 Cocksfoot/Orchard Grass *(Dactylis glomerata)*
G6 Timothy Grass *(Phleum pratense)*
M3 Mold *(Aspergillus fumigatus)*
M6 Mold *(Alternaria tenuis)*
T3 Birch *(Betula)*
W6 Mugwort *(Artemisia vulgaris)*

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Autoimmune Controls

- Individual unassayed pattern and detection controls for monitoring indirect immunofluorescent testing of antinuclear antibodies (ANA) and autoantibodies associated with systemic autoimmune diseases
- Liquid, human serum based
- 2 year shelf life at 2–8°C
- 6 month open-vial stability at 2–8°C

Package Description

- Negative and weak positive controls packaged separately
- 0.5 mL per vial

Ordering Information

Cat #	Description	
107	ANA Control, Homogeneous Pattern	3 x 0.5 mL
108	ANA Control, Speckled Pattern	3 x 0.5 mL
111	ANA Control, Nucleolar Pattern	3 x 0.5 mL
112	ANA Control, Centromere Pattern	3 x 0.5 mL
118	ANA Control, Mitotic Spindle Pattern	2 x 0.5 mL
113	Anti-SS-B Control	2 x 0.5 mL
114	Anti-SS-A Control	2 x 0.5 mL
115	Anti-Sm Control	2 x 0.5 mL
116	Anti-RNP Control	2 x 0.5 mL
117	Anti-Scl-70 Control	2 x 0.5 mL
119	Anti-nDNA Control	3 x 0.5 mL
127	Anti-Mitochondrial Control	3 x 0.5 mL
129	Anti-Smooth Muscle Control	3 x 0.5 mL
130	Autoimmune Negative Control	3 x 0.5 mL
131	ANA Controls Set, Positive (Homogeneous, Speckled, Centromere and Nucleolar Patterns)	4 x 0.5 mL

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

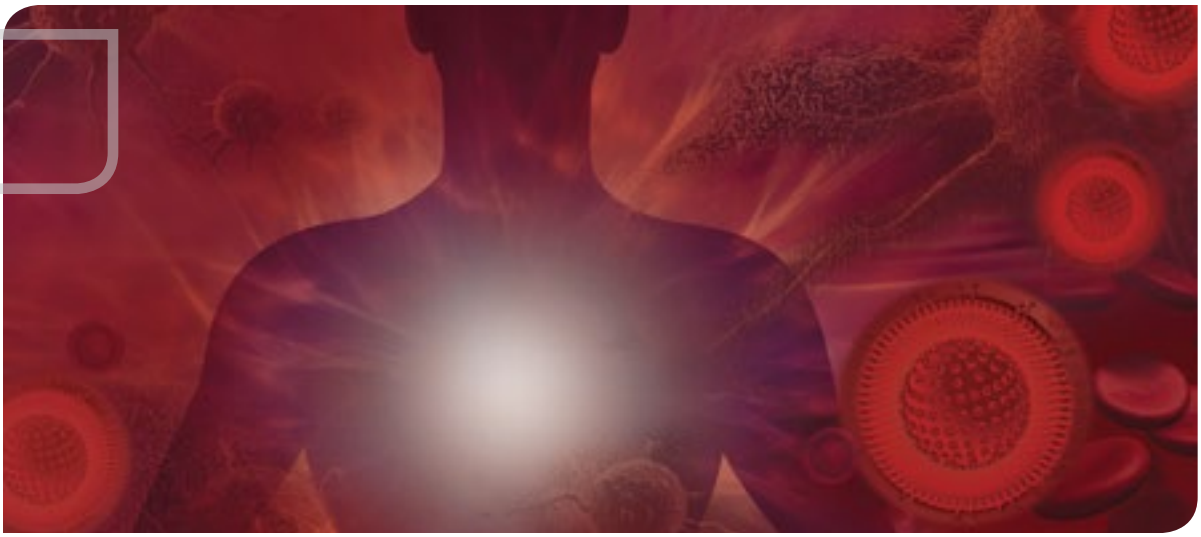
Use Bio-Rad's Immunology/Protein Controls on these popular instruments

Manufacturer/Instrument(s)	Elevated CRP	Immunology (Liquid)	Immunology Plus (Lyophilized)	Rheumatoid Factor	Spinal Fluid
Abbott Diagnostics					
Aeroset			●		
ARCHITECT Series	●	●	●	●	●
Beckman Coulter					
AU Series	●	●	●	●	●
UniCel DxC Series	●	●	●		●
Immage	●	●	●	●	●
Ortho Clinical Diagnostics					
VITROS Series	●	●	●	●	●
Roche Diagnostics					
Cobas 6000 Series/COBAS INTEGRA	●	●	●	●	●
Hitachi/MODULAR Systems	●	●	●	●	●
Siemens					
ADVIA Series	●	●	●	●	●
Atellica Solution		●			
BN Series	●	●	●	●	●
Dimension Vista	●	●			●
Dimension Series	●	●	●		●
IMMULITE Series		●			

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**



Infectious Disease Controls

Multi-analyte controls that provide consolidation and simplify QC management practices

Hepatitis & Retrovirus

VIROTROL I 64
Assayed VIROTROL I-C, I-E & I-F 64
VIROTROL II. 65
Assayed VIROTROL II-B 65
VIROTROL III 65
VIROTROL IV 65
VIROTROL HIV-1 Ag 66
VIROTROL HIV-1 gO 66
VIROTROL HIV-2 66
VIROTROL PLUS-R 66
VIROCLEAR. 67
VIROTROL HAV-IgM 67
VIROTROL HBc-IgM 67
VIROTROL HBeAg. 67

Congenital/Pediatric Diseases

VIROTROL ToRCH. 68
VIROTROL ToRCH-M 68
VIROCLEAR ToRCH 68
Liquichek ToRCH Plus Control 69
Liquichek ToRCH Plus IgM Control . . .69

Sexually Transmitted Diseases

VIROTROL MuMZ and
VIROCLEAR MuMZ 70
VIROTROL Syphilis LR-A. 70
VIROTROL RPR Panel. 70

Specialty Infectious Disease

VIROTROL EBV 71
VIROCLEAR EBV. 71
PneumoTrol 71
PyloriTrol 71
VIROTROL Chagas 72
VIROTROL Lyme 72
VIROTROL WNV 72

Did You Know?

- **Our liquid** controls are ready-to-use
- **Our controls** offer an extended shelf-life at refrigerated temperatures and may reduce the number of crossover studies throughout the year

For More Information

- **Booklet** Infectious Disease Controls for Serology Testing (Q-1565)

Please note that not all products may be available in all countries.

VIROTROL I

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC
- Available in multiple configurations and fill sizes

Ordering Information

Catalog #	Description
00100A	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00100B	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00100C	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00100E	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00100F	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00100G	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00100H	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00101B	Single Level/Tube . . . . . 10 x 4 mL
00101C	Single Level/Tube . . . . . 10 x 4 mL
00101E	Single Level/Tube . . . . . 10 x 4 mL
00101F	Single Level/Tube . . . . . 10 x 4 mL
00102B	Single Level/Dropper Bottle . . . . . 2 x 20 mL
00102C	Single Level/Dropper Bottle . . . . . 2 x 20 mL

Analytes

Anti-CMV
Anti-HBc
Anti-HCV
Anti-HIV-1
Anti-HTLV-I
HBsAg

Assayed VIROTROL I-C
Assayed VIROTROL I-E
Assayed VIROTROL I-F

- Assayed quality controls
- Human serum based
- Values provided for popular automated methods
- 3 year shelf life at 2–8°C
- 60 day open-vial stability at 2–8°C

Available outside the United States only.

Ordering Information

Cat #	Description
Assayed VIROTROL I-C	
00164	Single Level/Dropper Bottle . . . . . 1 x 5 mL
Assayed VIROTROL I-E	
00166	Single Level/Dropper Bottle . . . . . 1 x 5 mL
Assayed VIROTROL I-F	
00168	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Anti-CMV*
Anti-HBc
Anti-HCV
Anti-HIV-1
Anti-HTLV-I*
HBsAg

*Values not provided.

Did you know. . .
Over 35 million people are living with HIV worldwide.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROTROL II

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8°C
- 60 day open-vial stability at 2–8°C
- Available in multiple configurations and fill sizes

Ordering Information

Catalog #	Description
00104A	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00104B	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00115A	Single Level/Tube . . . . . 10 x 4 mL
00115B	Single Level/Tube . . . . . 10 x 4 mL

Analytes

Anti-HAV
Anti-HBs

Assayed VIROTROL II-B

- Assayed quality control
- Human serum based
- 3 year shelf life at 2-8°C
- 60 day open-vial stability at 2–8°C

Available outside the United States only.

Ordering Information

Catalog #	Description
00152	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Anti-HAV
Anti-HBs

VIROTROL III

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8°C
- 60 day open-vial stability at 2–8°C

Ordering Information

Catalog #	Description
00110A	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00110C	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Anti-HAV
HAV-IgM
HBc-IgM

VIROTROL IV

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8°C
- 60 day open-vial stability at 2–8°C

Ordering Information

Catalog #	Description
00111	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Anti-HBe

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROTROL HIV-1 Ag

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00108A	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00108B	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

HIV-1 Ag

VIROTROL HIV-1 gO

- An unassayed control used to detect antibodies to HIV-1 group O
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00113	Single Level/Tube . . . . . 5 x 4 mL
00113X	Single Level/Tube . . . . . 1 x 4 mL

Analytes

Anti-HIV-1 group O

VIROTROL HIV-2

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00105A	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00105B	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00105C	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analyte

Anti-HIV-2

VIROTROL PLUS-R

- An unassayed quality control
- Human serum based
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
12000538	Single Level/Tube . . . . . 5 x 4 mL
12000539	Single Level/Tube . . . . . 1 x 4 mL

Analytes

Anti-CMV
Anti-HBc
Anti-HCV
Anti-HIV 1/2
Anti HTLV I/II
Anti-*Treponema pallidum* (Syphilis)
HBsAg

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROCLEAR

- An unassayed, non-reactive quality control
- Human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC
- Available in multiple configurations and fill sizes

Ordering Information

Cat #	Description
00106	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00107	Single Level/Dropper Bottle . . . . . 2 x 20 mL
00112	Single Level/Tube . . . . . 10 x 4 mL

Analytes

Non-reactive for:

Anti-CMV
Anti-HAV
Anti-HBc
Anti-HBe
Anti-HBs
Anti-HCV
Anti-HIV-1
Anti-HIV-2
Anti-HTLV-I
Anti-HTLV-II
HAV-IgM
HBc-IgM
HBeAg
HBsAg
HIV-1 Ag
Non-treponemal Antibodies (Syphilitic Reagin)
Treponema pallidum (Syphilis) IgG
Treponema pallidum (Syphilis) IgM
Treponema pallidum (Syphillis) Total

VIROTROL HAV-IgM

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00142A	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analyte

HAV-IgM

VIROTROL HBc-IgM

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00143	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analyte

HBc-IgM

VIROTROL HBeAg

- An unassayed quality control
- Human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00144	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analyte

HBeAg

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROTROL ToRCH

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00109	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Cytomegalovirus (CMV) IgG
Herpes Simplex Virus Type 1 (HSV-1) IgG
Herpes Simplex Virus Type 2 (HSV-2) IgG
Rubella Virus IgG
Toxoplasma gondii IgG

VIROTROL ToRCH-M

- An unassayed quality control
- Human serum based
- 18 month shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
00117A	Single Level/Dropper Bottle . . . . . 1 x 5 mL
00117B	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Cytomegalovirus (CMV) IgG
Cytomegalovirus (CMV) IgM
Herpes Simplex Virus Type 1 (HSV-1) IgG
Herpes Simplex Virus Type 2 (HSV-2) IgG
Rubella Virus IgG
Rubella Virus IgM
Toxoplasma gondii IgG
Toxoplasma gondii IgM

VIROCLEAR ToRCH

- An unassayed, non-reactive quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
00118	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Non-reactive for:

Cytomegalovirus (CMV) IgG
Cytomegalovirus (CMV) IgM
Herpes Simplex Virus Type 1 (HSV-1) IgG
Herpes Simplex Virus Type 1 (HSV-1) IgM
Herpes Simplex Virus Type 2 (HSV-2) IgG
Herpes Simplex Virus Type 2 (HSV-2) IgM
Rubella Virus IgG
Rubella Virus IgM
Toxoplasma gondii IgG
Toxoplasma gondii IgM

Did you know. . .

Testing both IgG and IgM ToRCH analytes? VIROCLEAR ToRCH is non-reactive for all ToRCH IgG and IgM analytes.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek ToRCH Plus Control

- An unassayed, bilevel control used to monitor the precision of the most widely used serology test methods
- Liquid, human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC
- Positive and negative levels packaged separately

Ordering Information

Catalog #	Description
239	Positive . . . . . 3 x 3 mL
239X	Positive MiniPak. . . . . 1 x 3 mL
227	Positive* . . . . . 3 x 3 mL
227X	Positive MiniPak* . . . . . 1 x 3 mL
228	Negative . . . . . 3 x 3 mL
228X	Negative MiniPak . . . . . 1 x 3 mL

*Assayed control available outside the United States only.

Analytes

Cytomegalovirus (CMV) IgG
Epstein-Barr Virus (EBV) IgG
Helicobacter pylori IgG
Herpes Simplex Virus Type 1 (HSV-1) IgG
Herpes Simplex Virus Type 2 (HSV-2) IgG
Rubella Virus IgG
Syphilis RPR
Toxoplasma gondii IgG
Treponema pallidum (Syphilis) IgG
Varicella Zoster Virus (VZV) IgG

Liquichek ToRCH Plus IgM Control

- An unassayed control
- Liquid, human serum based
- 3 year shelf life at -20ºC to -70ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
229	Positive . . . . . 3 x 2 mL
229PX	Positive MiniPak. . . . . 1 x 2 mL

Analytes

Cytomegalovirus (CMV) IgM
Herpes Simplex Virus Type 1 (HSV-1) IgM
Herpes Simplex Virus Type 2 (HSV-2) IgM
Rubella Virus IgM
Toxoplasma gondii IgM

Refer to pages 146-147
The Molecular/Infectious Disease Analyte Control Index can help you choose the ToRCH control that's right for your lab.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROTROL MuMZ and VIROCLEAR MuMZ

- Unassayed quality controls
- Use VIROTROL MuMZ as a reactive control and VIROCLEAR MuMZ as a non-reactive control for the analytes listed at right
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
VIROTROL MuMZ	
00119	Single Level/Dropper Bottle . . . . . 1 x 5 mL
VIROCLEAR MuMZ	
00133	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Mumps Virus IgG
Rubeola Virus (Measles) IgG
Varicella Zoster Virus (VZV) IgG

VIROTROL Syphilis LR-A

- A low reactive (LR), unassayed quality control
- Human serum based
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
00171	Single Level/Tube . . . . . 5 x 4 mL
00171X	Single Level/Tube . . . . . 1 x 4 mL

Analyte

Anti-*Treponema pallidum* (Syphilis)

VIROTROL RPR Panel

- An unassayed quality control
- VIROTROL RPR Panel consists of one non-reactive member, one minimally reactive member, and one moderately to highly reactive titratable member
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
01400	Three Levels/Vial . . . . . 3 x 1.5 mL

Analyte

Non-treponemal Antibodies (Syphilitic Reagin)

Did you know . . .
That Varicella Zoster Virus causes Chicken Pox as well as Shingles?

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROTROL EBV

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00128A	Single Level/Dropper Bottle. . . . . 1 x 5 mL

Analytes

EBNA IgG
Epstein-Barr Virus (VCA) IgG
Epstein-Barr Virus (VCA) IgM

VIROCLEAR EBV

- An unassayed, non-reactive quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00131	Single Level/Dropper Bottle. . . . . 1 x 5 mL

Analytes

Non-reactive for:
EBNA IgG
EBV EA IgG
Epstein-Barr Virus (VCA) IgG
Epstein-Barr Virus (VCA) IgM

PneumoTrol

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00129	Single Level/Dropper Bottle. . . . . 1 x 5 mL

Analytes

Chlamydia trachomatis IgG
Mycoplasma pneumoniae IgG
Mycoplasma pneumoniae IgM

PyloriTrol

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00121	Single Level/Dropper Bottle. . . . . 1 x 5 mL

Analyte

Helicobacter pylori IgG

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

VIROTROL Chagas

- An unassayed, reactive quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00125	Single Level/Tube . . . . . 5 x 4 mL
00125X	Single Level/Tube . . . . . 1 x 4 mL

Analyte

Trypanosoma cruzi (T. cruzi) Antibodies

VIROTROL Lyme

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00132	Single Level/Dropper Bottle. . . . . 1 x 5 mL

Analyte

Borrelia burgdorferi IgG

VIROTROL WNV

- An unassayed quality control
- Human serum based
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00116	Single Level/Dropper Bottle. . . . . 1 x 5 mL

Analytes

West Nile Virus IgG
West Nile Virus IgM

Did you know . . .
Chagas is transmitted by the triatomine bug and infects between 7 and 8 million people globally each year.

Did you know . . .
West Nile Virus is transmitted via mosquito? 80% of people infected will be asymptomatic, however, WNV can cause a fatal neurological disease.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

InteliQ

Simplify your QC workflow with load-and-go-efficiency and robust data management

Quality Control Products

InteliQ Assayed Multiqual Control 74
InteliQ Ethanol/Ammonia Control 75
InteliQ Homocysteine Control 75
InteliQ Specialty Immunoassay Control 76
InteliQ Tumor Marker Control 76

Liquichek Cardiac Markers Plus Control LT 77
Liquichek Immunoassay Plus Control 77
Liquichek Immunology Control 78
Liquichek Urine Chemistry Control 78

Additional Information

Overview of product features 74

See Also

- **Pages 142-145** Analyte Chart: InteliQ Controls

Did You Know?

- **Discover more about XML** value assignment for next generation platforms at www.qcnet.com/InteliQ

For More Information

- **Brochure** InteliQ (Q-1665)
- **Flyer** eInserts XML (Q-1662)
- **Flyer** Analyte Chart (Q-1228)
- **Website** www.qcnet.com/InteliQ

Please note that not all products may be available in all countries.

InteliQ Assayed Multiqual Control

- Provides comprehensive range of 80 analytes to maximize testing efficiency for automated platforms
- Liquid, human serum based
- 3 year shelf life at -20ºC to -70ºC
- 14 day open-vial stability at 2-8ºC for most analytes

Ordering Information

Cat #	Description
12008256	Level 1 . . . . . 12 x 3 mL
12008257	Level 2 . . . . . 12 x 3 mL
12008258	Level 3 . . . . . 12 x 3 mL
12008259	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Analytes

α-1-Antitrypsin
α-1-Globulin
α-2-Globulin
β-Globulin
γ-Globulin
γ-Glutamyltransferase (GGT)
Acetaminophen
Acid Phosphatase (Total)
Albumin
Albumin-to-Globulin Ratio
Alkaline Phosphatase
ALT/SGPT
Amikacin
Amylase
Amylase (Pancreatic)
Apolipoprotein A-I
Apolipoprotein B
AST/SGOT
Bilirubin (Direct)
Bilirubin (Neonatal)
Bilirubin (Total)
Calcium
Calcium (Ionized)
Carbamazepine
Carbon Dioxide (CO_2)
Ceruloplasmin
Chloride
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Cholinesterase
Complement C3
Complement C4
Copper
Cortisol
Creatine Kinase (CK)
Creatinine
Digoxin
Ethanol
Ferritin
Gentamicin
Glucose
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Iron
Iron (TIBC)
Iron (UIBC)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
LAP Arylamidase
Lipase
Lithium
Magnesium
Osmolality
Phenobarbital
Phenytoin
Phospholipids
Phosphorus
Potassium
Prealbumin
Protein Serum (Total)
Salicylate
Sodium
T3 (Total)
T3 Uptake/T Uptake
T4 (Free)
T4 (Total)
Theophylline
Thyroid Stimulating Hormone (TSH)
Tobramycin
Transferrin
Triglycerides
Urea
Urea Nitrogen (BUN)
Uric Acid
Valproic Acid
Vitamin B_{12}
Zinc

InteliQ provides enhanced workflow solutions for next generation automated platforms

InteliQ Tubes	▪ Eliminate manual pour-off with ready-to-use “load and go” convenience to minimize handling errors and improve efficiency ▪ Reduce use of consumables and minimize laboratory waste ▪ Conveniently store refrigerated on-board the analyzer*
InteliQ Barcode Labels	▪ Each InteliQ tube is labeled with a unique sample identifier that provides traceability ▪ Eliminates manual QC order entry and prevents handling errors for a simpler, more efficient workflow
eData	▪ Import value assignment data to the analyzer via XML data files with Bio-Rad’s proprietary format for embedded data security ▪ Eliminates manual data input and prevents transcription errors ▪ Provides open-vial stability information for available analytes
Unity	▪ Access the industry leading Unity data management program and global peer group comparisons for greater confidence in reliability of patient results ▪ Use advanced Unity software tools to support your lab’s risk management program and simplify compliance reporting to achieve quality goals

*Optional Atellica Solution Sample Handler.

InteliQ is compatible with next generation chemistry and immunoassay platforms, including Siemens Healthineers Atellica Solution.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

InteliQ Ethanol/Ammonia Control

- Normal, elevated and toxic concentrations of Ethanol and Ammonia to monitor precision across the clinical range
- 2 year shelf life at 2-8°C
- 13 day open-vial stability at 2-8°C for Ammonia
- 3 day open-vial stability at 2-8°C for Ethanol

Ordering Information

Cat #	Description
12008299	Level 1 . . . . . 6 x 2 mL
12008300	Level 2 . . . . . 6 x 2 mL
12008301	Level 3 . . . . . 6 x 2 mL
12008302	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analytes

Ammonia
Ethanol

InteliQ Homocysteine Control

- Monitors precision of Homocysteine assays
- Liquid, human serum based
- 3 year shelf life at -20ºC to -70ºC
- 30 day open-vial stability at 2-8ºC

Ordering Information

Cat #	Description
12004309	Level 1 . . . . . 6 x 1 mL
12004310	Level 2 . . . . . 6 x 1 mL
12004311	Level 3 . . . . . 6 x 1 mL
12004312	Trilevel MiniPak (1 of each level) . . . . . 3 x 1 mL

Analyte

Homocysteine

XML value assignment available for next generation platforms

My eInserts XML software creates an eXtensible Markup Language (XML) file based on the instrument, control product, and lot number you select. The XML file contains value assignment data for next generation platforms, such as the Siemens Healthineers Atellica Solution.

Please refer to the eInserts XML flyer for step-by-step instructions.

Visit www.myeinserts.com for easy access to your eData

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

InteliQ Specialty Immunoassay Control

- Multi-analyte control for monitoring the precision of specialty immunoassay testing
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2-8°C for most analytes

Ordering Information

Cat #	Description	
12008276	Level LTA	6 x 4 mL
12008277	Level 1	6 x 4 mL
12008278	Level 2	6 x 4 mL
12008279	Level 3	6 x 4 mL
12008280	Four Level MiniPak (1 of each level)	4 x 4 mL

Analytes

25-Hydroxy Vitamin D
Anti-Thyroglobulin (Anti-Tg)
Anti-Thyroperoxidase (Anti-TPO)
C-Peptide
Erythropoietin (EPO)
Insulin Growth Factor I (IGF-I)/Sorratomedin C
Intact PTH
Osteocalcin

InteliQ Tumor Marker Control

- Comprehensive, assayed, multi-analyte control
- Monitors precision of immunoassay-based oncology testing procedures
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2-8°C for most analytes

Ordering Information

Cat #	Description	
12008289	Level 1	6 x 2 mL
12008290	Level 2	6 x 2 mL
12008291	Level 3	6 x 2 mL
12008292	Trilevel MiniPak (1 of each level)	3 x 2 mL

Analytes

α-Fetoprotein (AFP)
β-2-Microglobulin
β-hCG
CA 15-3
CA 19-9
CA 27.29
CA 72-4*
CA 125
Carcinoembryonic Antigen (CEA)
Cyfra 21-1*
Ferritin
hCG
hCG (Total)
hCG (Intact)
HE4
Her-2/neu
Insulin Growth Factor I (IGF-I)
PAP
ProGRP*
Prolactin
PSA (Free)
PSA (Total)
SCC*
Thyroglobulin (Tg)

*International Use Only

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

QC for Workflow Solutions

Liquichek Cardiac Markers Plus Control LT

- Designed to monitor precision of cardiac assessment assays
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 20 day open-vial stability at 2-8°C for most analytes

Ordering Information

Cat #	Description
12004806	Level 1 . . . . . 6 x 3 mL
12004814	Level 1B . . . . . 6 x 3 mL
12004808	Level 2 . . . . . 6 x 3 mL
12004810	Level 3 . . . . . 6 x 3 mL
12004807	Level 1 MiniPak . . . . . 1 x 3 mL
12004815	Level 1B MiniPak . . . . . 1 x 3 mL
12004809	Level 2 MiniPak . . . . . 1 x 3 mL
12004811	Level 3 MiniPak . . . . . 1 x 3 mL

Analytes

BNP
CK Total
CK-MB Isoenzyme
CRP
Digitoxin
Myoglobin
NT-proBNP
Troponin I

Liquichek Immunoassay Plus Control

- Offers a wide range of popular immunoassay analytes
- Provides an efficient solution for laboratories that focus on routine testing
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 14 day open-vial stability at 2-8°C for most analytes

Ordering Information

Cat #	Description
12004319	Level 1 . . . . . 12 x 4 mL
12004320	Level 2 . . . . . 12 x 4 mL
12004321	Level 3 . . . . . 12 x 4 mL
12004322	Trilevel MiniPak (1 of each level) . . . . . 3 x 4 mL

Analytes

Acetaminophen
AFP
Carbamazepine
CEA
CK-MB Isoenzyme
Cortisol
DHEA-Sulfate
Digoxin
Estradiol
Ferritin
Folate
FSH
Gentamicin
hCG
IgA
IgE
IgG
IgM
Insulin
Iron
Lithium
Luteinizing Hormone (LH)
Phenobarbital
Phenytoin
Progesterone
Prolactin
PSA
Salicylate
SHBG
T3 Free
T3 Total
T3 Uptake
T4 Free
T4 Total
Testosterone
Theophylline
TSH
Tobramycin
Valproic Acid
Vancomycin
Vitamin B_{12}

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

QC for Workflow Solutions

Liquichek Immunology Control

- Comprehensive menu of serum proteins and analytes, including Rheumatoid Factor
- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2-8°C for most analytes

Ordering Information

Cat #	Description
12003784	Level 1 . . . . . 6 x 3 mL
12003785	Level 2 . . . . . 6 x 3 mL
12003786	Level 3 . . . . . 6 x 3 mL
12003787	Trilevel MiniPak (1 of each level) . . . . . 3 x 3 mL

Analytes

α-1-Acid Glycoprotein
α-1-Antitrypsin
β-2-Microglobulin
Albumin
Antistreptolysin O (ASO)
Apolipoprotein A-1
Apolipoprotein B
Ceruloplasmin
Complement C3
Complement C4
CRP
Cystatin C
Ferritin
Haptoglobin
IgA
IgE
IgG
IgM
Kappa Light Chain
Lambda Light Chain
Lipoprotein (a)
Prealbumin
Protein (Total)
Rheumatoid Factor
Transferrin

Liquichek Urine Chemistry Control

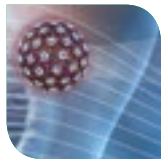
- Monitors precision of general urine chemistry testing
- Human urine based
- Offers 19 analytes
- 2 year shelf life at 2-8°C
- 30 day open-vial stability at 2-8°C for all analytes

Ordering Information

Cat #	Description
12004329	Level 1 . . . . . 12 x 4 mL
12004330	Level 2 . . . . . 12 x 4 mL
12004331	Bilevel Minipak (1 of each level) . . . . . 2 x 4 mL

Analytes

Amylase
Calcium
Chloride
Cortisol
Creatinine
Glucose
hCG (Qualitative)
Magnesium
Microalbumin
Osmolality
pH
Phosphorus
Potassium
Protein (Total)
Sodium
Specific Gravity
Urea
Urea Nitrogen (BUN)
Uric Acid



Molecular Controls

Monitor the performance of *in vitro* nucleic acid amplification methods for commonly tested viral load assays, healthcare associated infections and sexually transmitted infections

Molecular Controls

Amplichek I 80
Amplichek II 81
Amplichek STI 81
AmpliTrol CT/GC 82
AmpliPROBE CT/GC 82
AmpliClear 82

Did You Know?

- **Our new Amplichek** quality controls contain intact pathogens to monitor the entire testing process, including cell lysis and extraction

For More Information

- **Booklet** Amplichek Molecular Quality Controls (Q-1643)
- **Website** www.qcnet.com/molecular

Please note that not all products may be available in all countries.

Amplichek I

- Assayed multi-analyte quality control to monitor the performance of popular viral load assays
- Each control lot provides expected range for assays shown in the chart below
- Contains intact, inactivated viral particles to monitor the full NAT process from extraction to amplification and detection
- Convenient single use configuration to reduce contamination risk
- Liquid, human plasma matrix, similar to patient samples
- 12 month shelf life at -20ºC to -70ºC

Ordering Information

Catalog #	Description	
12000527	Negative	10 x 1.2 mL
12000528	Level 1	10 x 1.2 mL
12000529	Level 2	10 x 1.2 mL
12000530	Level 3	10 x 1.2 mL
12000531	4 Level MiniPak (one of each level)	4 x 1.2 mL

Analytes

Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Human Immunodeficiency Virus Type 1 (HIV-1)

This product is not intended for use with blood donor screening assays in the U.S. or Canada.

Product Level Selection by Instrument

Manufacturer/Assay(s) / Level	Negative	Level 1 (Low Positive)	Level 2 (Low Positive)	Level 3 (High Positive)
Roche				
COBAS AmpliPrep / COBAS TaqMan HBV Test v2.0	●	●		●
COBAS AmpliPrep / COBAS TaqMan HCV Test	●	●		●
COBAS AmpliPrep / COBAS TaqMan HIV-1 Test v2.0	●	●		●
Abbott Diagnostics				
*m*2000 RealTi*me* HBV	●		●	●
*m*2000 RealTi*me* HCV	●		●	●
*m*2000 RealTi*me* HIV-1	●		●	●

See package insert for current assays and assigned ranges.

Guideline

" . . . Quality control materials should be different from the calibrator materials to ensure that the QC procedure provides an independent assessment of the measurement procedure's performance in its entirety, including the procedure for calibration of the measurement."

CLSI Guidance Document C24-A3, Statistical Quality Control for Quantitative Measurement Procedures: Principles and Definitions; Approved Guideline.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Amplichek II

- Liquid, multi-analyte quality control designed to monitor the performance of *in vitro* nucleic acid test systems for Healthcare Associated Infections (HAI)
- Use with multiple specimen types and sampling tools including swabs and transfer pipets
- Convenient single use configuration to minimize contamination
- Contains intact, inactivated bacteria to monitor the full NAT process from extraction to amplification and detection
- Negative, Levels 1 and 2 are suitable for Cepheid Xpert assays
- 2 year shelf life at 2-8ºC

Contact your local Bio-Rad office for additional assay compatibility and Level selection information.

Ordering Information

Catalog #	Description	
12000201	Negative	10 x 0.2 mL
12000202	Level 1	10 x 0.2 mL
12000203	Level 2	10 x 0.2 mL
12000204	Level 3	10 x 0.2 mL
12000575	Negative MiniPak	1 x 0.2 mL
12000576	Level 1 MiniPak	1 x 0.2 mL
12000577	Level 2 MiniPak	1 x 0.2 mL
12000578	Level 3 MiniPak	1 x 0.2 mL

Analytes

Clostridium difficile (C diff.)
Methicillin-resistant *Staphylococcus aureus* (MRSA)
Methicillin-sensitive *Staphylococcus aureus* (MSSA)
Vancomycin-resistant *enterococci* (VRE or vanR)

Product Level Selection by Analyte

● Reactive
● Non-reactive

Analytes / Level	Negative* (Non-reactive)	Level 1 (MSSA)	Level 2 (Low Positive)	Level 3 (High Positive)
Clostridium difficile (C diff.) genes: Toxin B, Binary Toxin, TcdC	●	●	●	●
Methicillin Resistant *Staphylococcus aureus* (MRSA) genes: SPA, SCCmec, mecA	●	●	●	●
Methicillin Sensitive *Staphylococcus aureus* (MSSA) gene: SPA	●	●		
Vancomycin Resistant *enterococci* (VRE or vanR) genes: vanA, vanB**	●	●	●	●

*Contains Methicillin Sensitive *Staphylococcus epidermidis* (MSSE).
**Not available in the USA.

Amplichek STI

- Liquid, multi-analyte quality control designed to monitor the performance of *in vitro* nucleic acid test systems for sexually transmitted infections (STI)
- Suitable for popular assays and a variety of specimen sample types
- Convenient single use configuration to minimize contamination
- Use to monitor multiple assay steps including lysis, nucleic acid extraction and amplification
- Positive level prepared from intact, inactivated bacteria and human cell lines containing high risk HPV genotypes 16, 18 and 68
- 2-year shelf life at -20 to -70C

Ordering Information

Catalog #	Description	
12000991	Negative	10 x 0.2 mL
12000992	Positive	10 x 0.2 mL
12000993	Negative MiniPak	1 x 0.2 mL
12000994	Positive MiniPak	1 x 0.2 mL

Analytes

Chlamydia trachomatis (CT)
Human Papillomavirus (HPV)
Neisseria gonorrhoeae (NG or GC)

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

AmpliTrol CT/GC

- Unassayed quality control for DNA amplification assays
- Suitable for BD ProbeTec ET CT/NG
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
00126	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Chlamydia trachomatis (CT)
Neisseria gonorrhoeae (GC)

AmpliPROBE CT/GC

- Unassayed quality control for nucleic acid amplification assays
- Suitable for Hologic Aptima CT and NG assays
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
00138	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Chlamydia trachomatis (CT)
Neisseria gonorrhoeae (GC)

AmpliClear

- Unassayed, non-reactive quality control that serves as a companion to AmpliPROBE CT/GC and AmpliTrol CT/GC
- 2 year shelf life at 2–8ºC
- 60 day open-vial stability at 2–8ºC

Ordering Information

Catalog #	Description
00127	Single Level/Dropper Bottle . . . . . 1 x 5 mL

Analytes

Non-reactive for:
Chlamydia trachomatis (CT)
Neisseria gonorrhoeae (GC)

Did You Know. . .

ISO 15189 suggests that the use of independent third party control materials should be considered, either instead of, or in addition to, any control materials supplied by the reagent or instrument manufacturer.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Premium Controls

Consolidated controls address the complex needs of your multi-discipline laboratory

Premium Controls

Liquid Assayed Multiqual Premium 84

Liquichek Immunoassay Premium Control. 85

Additional Information

Controls for Popular Instruments Chart 86

See Also

- **Page 53** for Liquichek Tumor Marker Control

Did You Know?

- **Our Premium Controls** contain cross-disciplinary analytes for simple, quick and efficient QC testing on integrated immunochemistry systems

For More Information

- **Brochure** Premium Controls for Immunochemistry (Q-1215)
- **Brochure** Independent and Complete Control for Immunoassay (Q-1219)

Please note that not all products may be available in all countries.

Liquid Assayed Multiqual Premium

- Combination of 96 analytes, including General Chemistry, Immunology and Therapeutic Drug Monitoring (TDM) analytes
- Introduces a new level of efficiency by combining multiple high-usage quality controls
- Reduces QC set-up time, eliminates waste and provides cost and labor savings
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 14 day open-vial stability at 2-8°C for most analytes
- 30 day unopened stability at 2-8°C for most analytes

Ordering Information

Cat #	Description
284	Level 1 . . . . . 6 x 5 mL
285	Level 2 . . . . . 6 x 5 mL
286	Level 3 . . . . . 6 x 5 mL
285X	Trilevel MiniPak (1 of each level) . . . . . 3 x 5 mL

Analytes

General Chemistry
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
Alpha-Hydroxybutyrate Dehydrogenase (αHBDH)
ALT/SGPT
Amylase
Amylase (Pancreatic)
AST/SGOT
Bile Acids
Bilirubin (Direct)
Bilirubin (Neonatal)
Bilirubin (Total)
Calcium (Total)
Calcium (Ionized)
Carbon Dioxide (CO_2)
Chloride
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Cholinesterase
Copper
Creatine Kinase (CK)
Creatinine
Ethanol
GGT
Glucose
Glutamate Dehydrogenase (GLDH)*
Iron
Iron (TIBC)
Iron (UIBC)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
LAP Arylamidase
Lipase
Magnesium
Osmolality
Phosphorus
Phospholipids
Potassium
Protein (Total)
Sodium
Triglycerides
Urea
Urea Nitrogen (BUN)
Uric Acid
Zinc

Immunology
Alpha-1-Antitrypsin
Alpha-1-Acid Glycoprotein (AAG)
Anti-CCP
ASO
Apolipoprotein A-1
Apolipoprotein B
β-2-Microglobulin
Ceruloplasmin
C-Reactive Protein (CRP)
Complement C3
Complement C4
Cystatin C
Globulin
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Kappa Light Chain
Lambda Light Chain
Prealbumin
Protein Electrophoresis
Transferrin

TDM
Acetaminophen
Amikacin
Caffeine
Carbamazepine
Digoxin
Disopyramide
Gentamicin
Lidocaine
Lithium
Methotrexate
NAPA
Phenobarbital
Phenytoin
Procainamide
Quinidine
Salicylate
Theophyline
Tobramycin
Valproic Acid
Vancomycin

Immunoassay
Cortisol
Ferritin
T3 Uptake / T Uptake
T3 (Total)
T4 (Free)
T4 (Total)
TSH
Vitamin B_{12}

*Not available for diagnostic use in the United States.

Did you know . . .
You can optimize your core laboratory performance by using our family of Premium Controls.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Immunoassay Premium Control

- Combination of 62 analytes including routine Immunoassay, Specialty Immunoassay, Therapeutic Drug Monitoring (TDM) and Tumor Marker analytes
- Introduces a new level of efficiency by combining multiple high-usage quality controls
- Reduces QC set-up time, eliminates waste and provides cost and labor savings
- Liquid, human serum based
- 2 year shelf life at -20ºC to -70ºC
- 14 day open-vial stability at 2-8ºC for most analytes
- 28 day unopened stability at 2-8°C for most analytes

Ordering Information

Cat #	Description
27110	Trilevel (2 of each level) . . . . . 6 x 5 mL
27111	Level 1 . . . . . 6 x 5 mL
27112	Level 2 . . . . . 6 x 5 mL
27113	Level 3 . . . . . 6 x 5 mL
27110X	MiniPak (1 of each level). . . . . 3 x 5 mL

Analytes

Immunoassay
Acid Phosphatase (Prostatic)
AFP
Cortisol
DHEA-Sulfate
Estradiol
Estriol (Free)
Ferritin
Folate
FSH
hCG (Total Beta)
hGH
Insulin
LH
Progesterone
Prolactin
T3 Uptake/T Uptake
T3 (Free)
T3 (Total)
T4 (Free)
T4 (Total)
TBG
Testosterone
TSH
Vitamin B_{12}

Immunology
IgA
IgE
IgG
IgM

Specialty Immunoasssay
25-Hydroxy Vitamin D (Total)
SHBG

TDM
Acetaminophen
Amikacin
Caffeine
Carbamazepine (Tegretol)
Digoxin
Disopyramide
Ethosuximide
Gentamicin
Lidocaine
Lithium
NAPA (N-Acetyl Procainamide)
Phenobarbital
Phenytoin
Phenytoin (Free)
Primidone
Procainamide
Quinidine
Salicylate
Theophylline
Tobramycin
Tricyclic Antidepressant (TCA) Screen
Valproic Acid
Valproic Acid (Free)
Vancomycin

Tumor Marker
β-2-Microglobulin
CA 125
CA 15-3
CA 19-9
CEA (Carcinoembryonic Antigen)
Cyfra 21-1*
PSA (Free)
PSA (Total)

*Not available for diagnostic use in the United States.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Use Bio-Rad's Premium Controls on these popular instruments

Manufacturer/Instrument(s)	Liquid Assayed Multiqual Premium	Liquichek Immunoassay Premium
Abbott Diagnostics		
ARCHITECT cSystems	●	●
ARCHITECT iSystems	●	●
Beckman Coulter		
Access 2	●	●
AU Systems	●	●
Synchron DxC Systems	●	●
Unicel Dxl Series	●	●
Ortho Clinical Diagnostics		
VITROS Microslide & Microtip Series	●	●
VITROS Microwell Series		●
Roche Diagnostics		
cobas c Systems	●	●
Cobas E Systems	●	●
COBAS INTEGRA	●	●
Elecsys/E 170/E Systems	●	●
Hitachi/MODULAR Systems	●	●
Siemens		
ADVIA Centaur		●
ADVIA Chemistry Systems	●	
BN Series	●	●
Dimension Series	●	●
Dimension Vista Systems	●	●
IMMULITE		●

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**

QC Data Management Solutions

Optimize Your Laboratory Performance as a Member of the World's Largest Community of QC Users

Software Products

Unity Real Time LT 88, 89
UnityWeb 88, 89
Unity Real Time 88, 90
Unity Real Time online 88, 90
WebConnect 89
UnityConnect 90
Bio-Rad Mission: Control 91
Westgard Advisor 91
Unity Alert 91
Unity Interlaboratory Reports 92

Did You Know?

- **Web-based software** solutions eliminate the need to install and update software locally, and reduce the amount of support necessary from on-site IT staff

For More Information

- **Booklet** Unity Interlaboratory Program (Q-1144)
- **Brochure** QC Data Management Solutions (Q-1181)
- **Brochure** QC Data Management Solutions for Lab Supervisors (Q-1190)
- **Flyer** Unity Alert (Q-1180)
- **Flyer** Westgard Advisor (Q-1608)
- **Flyers** Bio-Rad Mission: Control (Q-1638 and Q-1642)
- **Website** www.qcnet.com/datamanagement

Please note that not all products may be available in all countries.

Join over 29,000 of your peers who already use the Unity Interlaboratory Program, the most robust program for clinical labs

Bio-Rad Quality Controls are part of the Unity Program with industry-leading features for benchmarking laboratory performance. Whether a lab produces five hundred or five million results a year, the lab director bears ultimate responsibility for the accuracy and timeliness of each test result.[1]

A patient risk approach to QC means planning your QC based on the type or method of the test and its impact on patient outcomes when a failure is detected. As the world's leader in clinical laboratory QC, we've established the foundation to help you make the transition to patient-focused QC.

- Benefit from peer data generated from more than 50,000 instruments worldwide
- Utilize real-time access to peer group comparisons to help with troubleshooting
- Consolidate your entire laboratory into one QC system
- Facilitate run-time decisions with optimized Westgard rules
- Facilitate compliance with simple tools to review rule violations and document corrective actions
- Define your own quality requirements and track key quality performance indicators
- Automate QC data from Instruments, Middleware and/or LIS systems with Unity Connectivity

This sophisticated software includes best-in-class tools to support releasing results, benchmarking laboratory performance, and designing your QC system. Unity enables you to work smarter, making it possible to achieve optimum lab practice for your QC workflow. Reducing manual QC data management tasks with software automation frees your staff to focus on more critical tasks. Unity ultimately helps your team deliver objectives more efficiently and with greater ease.

Choose From Four Unity Solutions

Bio-Rad Laboratories offers several options for participation in the Unity Interlaboratory Program. Refer to the product comparison grid below to help determine which solution is the most appropriate for your laboratory.

	Basic User Options		Advanced User Options	
	UnityWeb	Unity Real Time LT	Unity Real Time online	Unity Real Time
Type of Solution				
Web Service (Web-based)	X		X	
Desktop Software		X		X
Unity Interlaboratory Reports				
Monthly Reports	X	X	X	X
InstantQC Reports	X	X	X	X
Basic Intralaboratory Charts & Reports				
Westgard Rules	X	X	X	X
Various Charts and Reports	X	X	X	X
Additional Features				
Westgard Advisor (Subscription sold separately)	X		X	X
Bench Review with Data Review Report	X	X	X	X
Supervisor Data Review with Data Review Report			X	X
Analytical Goals			X	X
Dynamic Data Set Comparisons			X	X
Database Platform				
Bio-Rad Hosted	X		X	
Installed on Local Laboratory PC		X		X
Connectivity (Sold separately)				
WebConnect	X		X	
UnityConnect	X	X	X	X

Want to know more? Discover the power of Unity Solutions at www.qcnet.com/datamanagement/

[1]Malone B. A New Approach to Quality Control. AACC. 2011;37:11. Available at: http://www.aacc.org/publications/cln/2011/november/Pages/ANewApproachtoQualityControl.aspx#. Accessed June 14, 2013.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Basic | Advanced | Desktop based | Web based | Mobile

Basic User Options

Unity Real Time LT

Entry-Level Desktop QC Data Management Solution

- Basic QC rules, charts and reports
- Configurable Levey-Jennings charts
- Upgrade easily to Unity Real Time for more advanced tools and features
- Upload QC data points from an LIS, middleware or instrument (optional)

Ordering Information

Cat #	Description
804	Installation Package . . . . . .Single use
805-1	Unity Real Time LT . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

UnityWeb

Entry-Level Online QC Data Management Solution

- No software to install and maintain
- Use basic QC rules, charts and reports
- Upgrade easily to Unity Real Time online for more advanced tools and features
- Upload QC data points from an LIS, middleware or instrument (optional)

Ordering Information

Cat #	Description
870-1	UnityWeb . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

WebConnect

A web-based connectivity solution that allows laboratories to easily upload QC data from LIS systems, middleware and/or instruments directly into Unity Real Time online or UnityWeb

- Eliminate manual keying of data
- Standard LIS QC reports can be used
- No software to install

Ordering Information

Cat #	Description
870-W1	WebConnect 2.0 . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

Compliance Requirements

"The laboratory shall design quality control procedures that verify the attainment of the intended quality of results."

– ISO 15189:2012(E), Subclause 5.6.2.1

Contact your Bio-Rad sales representative for region-specific information.

Advanced User Options

Unity Real Time

Expert QC Data Management Solution for Desktop Users

- Facilitate compliance under CLIA and ISO 15189
- Improve real-time bench and supervisor QC data review
- Implement best QC rules when used with Westgard Advisor
- Run validation with comprehensive audit trails
- Advanced charts and reports for data analysis
- Reduce non-essential retests with Analytical Goal options
- Upload QC data points from an LIS, middleware or instrument (optional)
- RiLiBÄK module available to comply with German regulations
- GOST module available to comply with Russian regulations

Ordering Information

Cat #	Description
804	Installation Package . . . . . .Single use
804-1	Unity Real Time . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

Unity Real Time online

Expert QC Data Management Solution for Online Users

- Facilitate compliance under CLIA and ISO 15189
- Improve real-time bench and supervisor QC data review
- Implement best QC rules when used with Westgard Advisor
- Run validation with comprehensive audit trails
- Advanced charts and reports for data analysis
- Reduce non-essential retests with Analytical Goal options
- Upload QC data points from an LIS, middleware or instrument (optional)

Ordering Information

Cat #	Description
804-W1	Unity Real Time online . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

UnityConnect

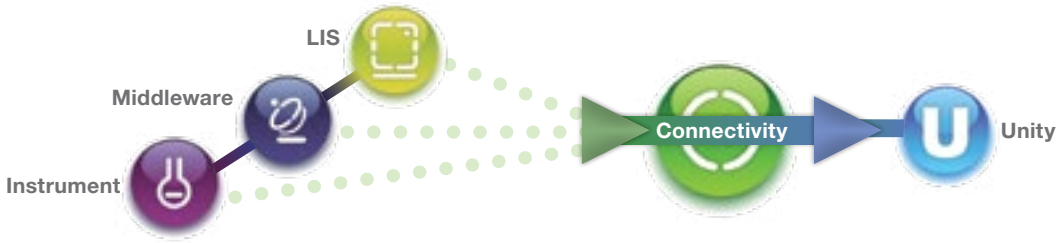
A connectivity solution that allows QC data from LIS systems, middleware and/or instruments to be quickly and easily imported into Unity software, enabling interlaboratory program comparison

- Eliminate manual keying of QC data
- Standard LIS QC reports can be used
- Automatic data import and real-time connection
- Transparent to the flow of data to the LIS
- Capture and analyze QC data economically from laboratory instruments not connected to the LIS
- Easy-to-install optional interface hardware
- Choose from soft, serial and ethernet connections

Ordering Information

Cat #	Description
820-1	UnityConnect Software . . . . . Annual subscription
858i	Additional Software Training . . . . . .Single use

Hardware solutions available for serial and network devices. Contact your Bio-Rad sales representative for recommendation.



Contact your Bio-Rad sales representative for region-specific information.

Advanced User Options

Bio-Rad Mission: Control

Take the guesswork out of your QC strategy

Employing a robust quality control system is an essential step for any laboratory hoping to provide reliable results for appropriate patient care. Unfortunately for clinical laboratories, selecting the right QC rules and frequency can be challenging, and questions often arise.

- How often should controls be run for specific assays– is there an optimal frequency?
- How can QC be managed to minimize the risk of releasing incorrect patient results?

Bio-Rad Mission: Control is the first objective risk management solution for quality control in laboratories. The intuitive interface allows users to focus on patient safety by assessing the risk of reporting incorrect patient results in their laboratory.

Bio-Rad Mission: Control allows you to:

- Determine your laboratory's Risk Management Index (RMI)
- Evaluate your test method performance based on your QC results
- Quantify the likelihood and severity of reporting incorrect patient results
- Assess how much you can lower your risk, based on instrument performance
- Create a QC Plan by confidently selecting rules and frequency that fit your risk tolerance

Minimize your risk of reporting unreliable patient results

A patient risk approach to Quality Control is a progressive step toward improving quality assurance and patient care. Bio-Rad can help you understand what this means for your laboratory and how to take steps to implement an effective approach for Quality Control within your analytical test phase.

For more information, visit www.qcnet.com/missioncontrol

Ordering Information

Cat #	Description
11000002	Mission: Control. . . . . Annual Subscription
11000005	Mission: Control. . . . . Subscription and Service Bundle

Westgard Advisor

Automatic QC Rules Selection Engine

- Recommend and automatically apply best QC rules with patented technology
- Easy step-by-step automatic rule selection capabilities
- Reduce false rejections and desensitization to false error flags
- Save time and money by reducing unnecessary repeats and troubleshooting
- Improve laboratory test quality with optimally selected QC rules
- Available as an optional module with Unity QC data management solutions

Ordering Information

Cat #	Description
811-1	Westgard Advisor . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

Unity Alert

Continuously Monitor QC Status

- Notifications of missing QC runs can help to ensure proper monitoring of instrument performance
- Notifications of new violations can be useful for troubleshooting and monitoring problem analytes
- Alert rules are easy to set up and customize for specific instruments or tests
- Receive emails remotely to stay informed of QC issues in your laboratory
- Color-coded displays help draw attention to the most urgent QC issues
- Notifications are provided even when Unity Real Time is not in use
- Available as an optional module with Unity Real Time

Ordering Information

Cat #	Description
806-1	Unity Alert . . . . . Annual subscription
825i	Unity Remote Installation & Training. . . . . .Single use
858i	Additional Software Training . . . . . .Single use

Contact your Bio-Rad sales representative for region-specific information.

Unity Interlaboratory Reports

There has never been a better time to be a member of the world's largest QC peer group program

Bio-Rad drives innovation in the development of Quality Control for the clinical laboratory and we're raising the bar again. It's time to take a fresh look at your Unity peer reports. Redesigned formats make reports easier than ever to read. The addition of color, graphics and statistical information allows you to interpret your data with ease, enabling prompt action to potential problems. Condensed report formats require fewer pages and view equally well printed in color or black and white.

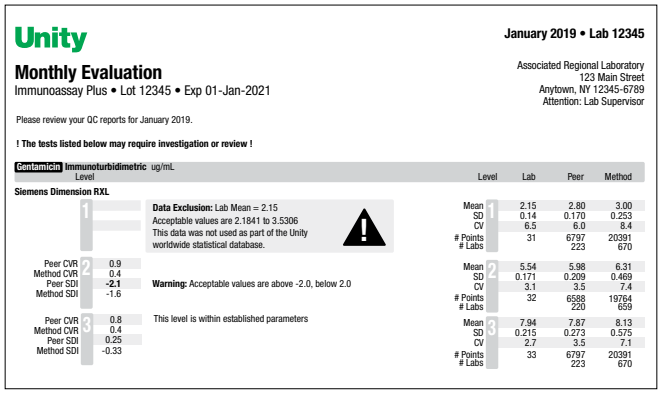
Unity Interlaboratory Program Reports Feature:

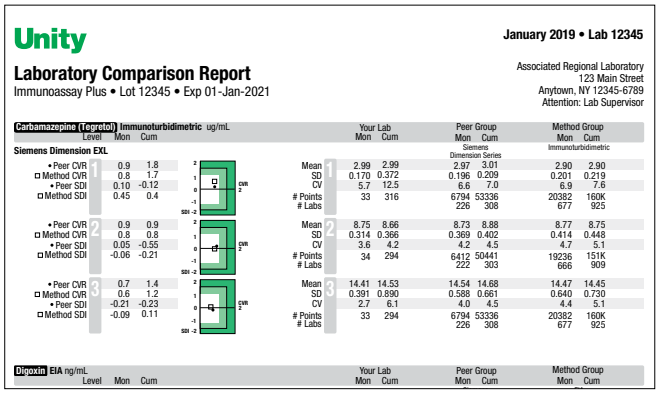
- Logical arrangement of data provides a quick and intuitive read
- Data consolidation and imagery simplifies interpretation of lab data

List of Available Reports

- Monthly Evaluation
- Laboratory Performance Overview
- Laboratory Comparison Report
- Laboratory Histogram
- Bias & Imprecision Histogram
- Worldwide Report
- Statistical Profile Report
- Affiliated Laboratory Comparison Report
- Affiliated Laboratory Comparison Report: Abbreviated Summary
- Affiliated Data Exception Report
- Urinalysis Reports
- Qualitative Worldwide Report
- Blood Typing/Serum Indices Report
- InstantQC Report

Contact your Bio-Rad Sales Representative or visit QCNet.com for more information.


Unity
Monthly Evaluation
Immunoassay Plus • Lot 12345 • Exp 01-Jan-2021
January 2019 • Lab 12345
Associated Regional Laboratory
123 Main Street
Anytown, NY 12345-6789
Attention: Lab Supervisor
Please review your QC reports for January 2019.
! The tests listed below may require investigation or review !
Gentamicin Immunoturbidimetric ug/mL
Siemens Dimension RXL
Data Exclusion: Lab Mean = 2.15
Acceptable values are 2.1841 to 3.5306
This data was not used as part of the Unity worldwide statistical database.
Warning: Acceptable values are above -2.0, below 2.0
This level is within established parameters


Unity
Laboratory Comparison Report
Immunoassay Plus • Lot 12345 • Exp 01-Jan-2021
January 2019 • Lab 12345
Associated Regional Laboratory
123 Main Street
Anytown, NY 12345-6789
Attention: Lab Supervisor
Carbamazepine (Tegretol) Immunoturbidimetric ug/mL
Siemens Dimension EXL
Dipoxin EIA ng/mL

Receive on-demand InstantQC Reports via QCNet today!

InstantQC Reports allow you to compare your QC results to other laboratories at any time, with real-time peer information. On-demand reports are particularly useful for troubleshooting problems with test system performance.

Customers agree:

"The documentation of Bio-Rad Controls using the Unity QC Program has been well accepted by CAP inspectors. Worry-free QC."
— Laboratory Director, Health Center

"To compare our data with a substantial peer group ensures that we are turning out reliable patient data."
— Laboratory Supervisor, School of Medicine

"The reports are clean and easy to read and understand. For each test, Unity Reports for our lab show a summary of our data, our instrument group, and our method group—reports are simple."
— Clinical Chemist, Hospital Laboratory

QC Products in Dimension Vista Vials

Rely on Bio-Rad controls and QC performance for routine quality control of Vista assays

Quality Control Products

Liquid Assayed Multiqual Control 94
Liquichek Cardiac Markers Plus Control LT 94
Liquichek Diabetes Control 95
Liquichek Ethanol/Ammonia Control 95
Liquichek Immunoassay Plus Control 96
Liquichek Immunology Control 96
Liquichek Pediatric Control 97
Liquichek Spinal Fluid Control 97
Liquichek Tumor Marker Control 98
Liquichek Urine Chemistry Control 98

See Also

- **Pages 148-149** Analyte Chart: QC Products in Dimension Vista Vials

Controls in Vista vials allow Dimension Vista customers to

- **Access extensive** Unity peer group reports and comparisons
- **Scan 2D barcodes** to automatically set-up QC with Vista assigned values to prevent transcription errors
- **Alleviate manual pour-off** tasks to minimize handling errors and reduce the cost of extra consumables
- **Monitor analytes** that are specific to the Dimension Vista test menu

For More Information

- **Booklet** Bio-Rad Quality Control Products in Dimension Vista Vials (Q-1214)
- **Flyer** Dimension Vista Controls Analyte Chart (Q-1223)

Please note that not all products may be available in all countries.

Liquid Assayed Multiqual Control

- Provides a comprehensive range of chemistry analytes for monitoring the precision of general chemistry test procedures
- Liquid, human serum based
- 5 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 3 year shelf life when stored at -20ºC to -50ºC

Ordering Information

Cat #	Description	
337	Level 1	12 x 2.5 mL
338	Level 2	12 x 2.5 mL
339	Level 3	12 x 2.5 mL
338X	Trilevel MiniPak (1 of each level)	3 x 2.5 mL

Analytes

General Chemistry
Albumin
Alkaline Phosphatase (ALP)
ALT/SGPT
Amylase
AST/SGOT
Bilirubin (Direct)
Bilirubin (Total)
Calcium (Total)
Chloride
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
CO_2
Creatine Kinase
Creatinine
Ethanol
GGT
Glucose
Iron
Iron (TIBC)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
Lipase
Magnesium
Phosphorus
Potassium
Protein (Total)
Pseudocholinesterase
Sodium
Triglycerides
Urea Nitrogen
Uric Acid

Immunology
Alpha-1-Antitrypsin
Apolipoprotein A-1
Apolipoprotein B
Ceruloplasmin
Complement C3
Complement C4
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Prealbumin
Transferrin

Therapeutic Drug Monitoring
Acetaminophen
Carbamazepine
Digoxin
Gentamicin
Lithium
Phenobarbital
Phenytoin
Salicylate
Theophylline
Tobramycin
Valproic Acid

Immunoassay
Ferritin
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
TSH
Vitamin B_{12}

Liquichek Cardiac Markers Plus Control LT

- A comprehensive cardiac assessment control
- Level 1C Troponin I values at or near the 99th percentile upper reference limit (URL) of Troponin I LOCI method
- Value assigned for hs-CRP
- Liquid, human serum based
- 10 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 3 year shelf life when stored at -20ºC to -50ºC

Ordering Information

Cat #	Description	
297	Level 1C	6 x 2.5 mL
298	Level 2	6 x 2.5 mL
299	Level 3	6 x 2.5 mL
298X	Trilevel MiniPak (1 of each level)	3 x 2.5 mL

Analytes

CK (Total)
CK-MB Isoenzyme
CRP
Digitoxin
Myoglobin
NT-proBNP
Troponin I

Did You Know. . .
Siemens Healthineers recommends the family of Bio-Rad Controls in Dimension Vista vials for your Quality Control needs.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Diabetes Control

- Monitors the precision of Hemoglobin A1C
- Available in three critical levels
- Liquid, human whole blood based
- 14 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 3 year shelf life when stored at -10ºC to -50ºC

Ordering Information

Cat #	Description
291	Level 1 . . . . . 6 x 2 mL
292	Level 2 . . . . . 6 x 2 mL
293	Level 3 . . . . . 6 x 2 mL
292X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analyte

Hemoglobin A1C

Liquichek Ethanol/Ammonia Control

- Offers normal, elevated and toxic concentrations of Ethanol and Ammonia
- 20 day open-vial (punctured) stability for both analytes when stored at 2–8ºC
- 2 year shelf life when stored at 2–8ºC

Ordering Information

Catalog #	Description
271	Level 1 . . . . . 6 x 2.5 mL
272	Level 2 . . . . . 6 x 2.5 mL
273	Level 3 . . . . . 6 x 2.5 mL
272X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2.5 mL

Analytes

Ammonia
Ethanol

Product Insert Table and 2D Barcode

Scan 2D barcodes with Vista values for easy, efficient QC product set-up

Level 1

Analyte	Lot 45611W Mean	Lot 45611W Range	Units	Lot 45611W Mean	Lot 45611W Range	SI
Acetaminophen	23.6	20.9 – 26.2	µg/mL	156	138 – 173	µmol/L
Alanine Aminotransferase (ALT/SGPT)	26.0	22.6 – 29.3	U/L	0.434	0.377 – 0.490	µKat/L
Albumin	2.46	2.26 – 2.66	g/dL	24.6	22.6 – 26.6	g/L
Alkaline Phosphatase (ALP)	37.8	22.4 – 53.2	U/L	0.631	0.374 – 0.889	µKat/L
Alpha-1-Antitrypsin (T)	93.7	82.3 – 105	mg/dL	0.937	0.823 – 1.05	g/L
Amylase	42.1	36.2 – 49.8	U/L	0.670	0.603 – 0.735	µKat/L
Apolipoprotein A-I (T)	87.5	80.8 – 94.2	mg/dL	0.875	0.808 – 0.942	g/L
Apolipoprotein B (T)	41.4	36.9 – 45.9	mg/dL	0.414	0.369 – 0.459	g/L
Aspartate Aminotransferase (AST/SGOT)	36.6	30.9 – 42.3	U/L	0.612	0.517 – 0.707	µKat/L
Bilirubin, Direct	0.210	0.100 – 0.320	mg/dL	3.59	1.71 – 5.47	µmol/L
Bilirubin, Total	0.610	0.310 – 0.790	mg/dL	10.4	5.72 – 12.0	µmol/L
C3 Complement (T)	89.3	82.3 – 96.7	mg/dL	0.893	0.823 – 0.967	g/L
C4 Complement (T)	14.8	13.4 – 16.2	mg/dL	0.148	0.134 – 0.162	g/L
Calcium, Total	5.10	5.59 – 6.51	mg/dL	1.53	1.42 – 1.63	mmol/L
Carbamazepine	3.92	2.89 – 4.86	µg/mL	16.6	12.5 – 20.6	µmol/L
Carbon Dioxide (CO_2)	15.8	14.2 – 17.5	mEq/L	15.8	14.2 – 17.5	mmol/L

Note: All barcodes should be scanned on the package insert prior to implementing a new lot of Vista vial products for purposes of updating the quality control data.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Immunoassay Plus Control

- Efficient solution for QC of routine Immunoassay and Therapeutic Drug Monitoring analytes
- Liquid, human serum based
- 4 day open-vial (punctured) stability for all analytes when stored at 2–8°C
- 2 year shelf life when stored at -20°C to -50°C

Ordering Information

Catalog #	Description	
267	Level 1	12 x 2.5 mL
268	Level 2	12 x 2.5 mL
269	Level 3	12 x 2.5 mL
268X	Trilevel MiniPak (1 of each level)	3 x 2.5 mL

Analytes

Therapeutic Drug Monitoring
Acetaminophen
Amikacin
Caffeine
Carbamazepine
Digoxin
Gentamicin
Lidocaine
Lithium
N-Acetylprocainamide (NAPA)
Phenobarbital
Phenytoin
Procainamide
Salicylate
Theophylline
Tobramycin
Tricyclic Antidepressants (TCA) Screen
Valproic Acid
Vancomycin

Immunology
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)

Immunoassay
Alphafetoprotein (AFP)
CEA
Estradiol
Ferritin
Folate
FSH
hCG-β Subunit
LH
Prolactin
PSA
PSA (Free)
T3 (Free)
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
TSH
Vitamin B_{12}

Cardiac
CK-MB Isoenzyme

General Chemistry
Iron

Liquichek Immunology Control

- Comprehensive control to monitor the precision of serum proteins and related analyte test procedures
- Liquid, human serum based
- 5 day open-vial (punctured) stability for all analytes when stored at 2–8°C
- 2 year shelf life when stored at -20°C to -50°C

Ordering Information

Catalog #	Description	
281	Level 1	6 x 2.5 mL
282	Level 2	6 x 2.5 mL
283	Level 3	6 x 2.5 mL
282X	Trilevel MiniPak (1 of each level)	3 x 2.5 mL

Analytes

α-1-Acid Glycoprotein
α-1-Antitrypsin
α-2-Macroglobulin
β-2-Microglobulin
Albumin
Antistreptolysin O (ASO)
Apolipoprotein A-1
Apolipoprotein B
C1 Inhibitor
Ceruloplasmin
Complement C3
Complement C4
CRP
Cystatin C
Ferritin
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin G Subclasses 1–4
Immunoglobulin M (IgM)
Kappa Light Chain
Lambda Light Chain
Prealbumin
Protein (Total)
Retinol Binding Protein (RBP)
Rheumatoid Factor
Transferrin

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Pediatric Control

- Monitors precision of analyte test procedures at higher concentrations important for neonatal testing
- Suitable for monitoring high Bilirubin levels important for adult liver disease.
- Liquid
- 14 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 3 year shelf life when stored at -20ºC to -50ºC

Ordering Information

Catalog #	Description	
176	Level 1	6 x 2.5 mL
177	Level 2	6 x 2.5 mL
178X	Bilevel MiniPak (1 of each level)	2 x 2.5 mL

Analytes

Bilirubin (Direct)
Bilirubin (Total)
Caffeine
Calcium
Chloride
Glucose
Magnesium
Potassium
Sodium
Theophylline

Liquichek Spinal Fluid Control

- Multi-analyte control with relevant concentrations of analytes for cerebrospinal fluid tests
- Liquid, human based
- 30 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 2 year shelf life at 2–8ºC

Ordering Information

Catalog #	Description	
303	Level 1	6 x 2.5 mL
304	Level 2	6 x 2.5 mL
302X	Bilevel MiniPak (1 of each level)	2 x 2.5 mL

Analytes

Albumin
Chloride
Glucose
Immunoglobulin G (IgG)
Lactate (Lactic Acid)
Lactate Dehydrogenase (LDH)
Protein (Total)
Sodium

Did You Know. . .

Liquid Assayed Multiqual (pg. 97) and Liquichek Immunology Control (pg. 97) complement Liquichek Spinal Fluid Control for analytes also tested in serum. See individual product pages for more information.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Tumor Marker Control

- Monitors the precision of tumor marker testing procedures
- Liquid, human based
- 10 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 2 year shelf life when stored at -20ºC to -50ºC

Ordering Information

Cat #	Description	
27114	Level 1	6 x 2 mL
27115	Level 2	6 x 2 mL
27116	Level 3	6 x 2 mL
27115X	Trilevel MiniPak (1 of each level)	3 x 2 mL

Analytes

Alphafetoprotein (AFP)
β-2-Microglobulin
CA 15-3
CA 19-9
CA 125
Carcinoembryonic Antigen (CEA)
Ferritin
hCG
Prolactin
PSA (Free)
PSA (Total)

Liquichek Urine Chemistry Control

- Monitors the precision of general urine chemistry testing procedures
- Includes Amylase and Creatinine
- Liquid, human urine based
- 30 day open-vial (punctured) stability for all analytes when stored at 2–8ºC
- 2 year shelf life when stored refrigerated at 2–8ºC

Ordering Information

Cat #	Description	
195	Level 1	12 x 2.5 mL
196	Level 2	12 x 2.5 mL
198X	Bilevel MiniPak (1 of each level)	2 x 2.5 mL

Analytes

Amylase
Calcium
Chloride
Creatinine
Glucose
Magnesium
Microalbumin
Phosphorus
Potassium
Protein (Total)
Sodium
Urea Nitrogen
Uric Acid

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Therapeutic Drug Monitoring Controls

Be more confident when reporting TDM results with Bio-Rad's reliable QC products, regardless of what platform you use

TDM Controls

Liquichek Whole Blood Immunosuppressant Control 100

Lyphochek Whole Blood Immunosuppressant Control 100

Liquichek Therapeutic Drug Monitoring Control. 101

Lyphochek Therapeutic Drug Monitoring Control 101

Additional Information

Controls for Popular Instruments Chart 102

See Also

- **Pages 18-21** for TDM analytes in Serum Chemistry controls
- **Pages 50-54** for TDM analytes in Immunoassay controls
- **Pages 84-85** for TDM analytes in Premium Controls

Did You Know?

- **Bio-Rad controls** provide assigned values for over 50 TDM methods to aid in providing consistently reliable results

For More Information

- **Brochure** Whole Blood Immunosuppressant Controls (Q-1604)
- **Brochure** Premium Controls for Immunochemistry (Q-1215)

Please note that not all products may be available in all countries.

Liquichek Whole Blood Immunosuppressant Control

- Multiple levels ranging from low to very high immunosuppressant concentrations
- Compatible with chromatography and most immunoassay methods
- Liquid, human blood based
- 3 year shelf life at -20ºC to -70ºC
- 14 day open-vial stability at 2-8ºC for most analytes

Ordering Information

Cat #	Description	
12000404	Level 1	6 x 2 mL
12000405	Level 2	6 x 2 mL
12000406	Level 3	6 x 2 mL
12000407	Level 4	6 x 2 mL
12000408	Four Level MiniPak (1 of each level)	4 x 2 mL

Lyphochek Whole Blood Immunosuppressant Control

- Multiple levels ranging from low to very high immunosuppressant concentrations
- Compatible with chromatography and most immunoassay methods.
- Lyophilized, human blood based
- 3 year shelf life at 2–8ºC
- 14 day reconstituted stability at 2–8ºC
- 30 day reconstituted stability at -20ºC to -70ºC

Ordering Information

Cat #	Description	
274	Level 1	6 x 2 mL
275	Level 2	6 x 2 mL
276	Level 3	6 x 2 mL
277	Level 4	6 x 2 mL
278	Level 5	6 x 2 mL
279X	Five Level MiniPak (1 of each level)	5 x 2 mL

Analytes for Liquichek and Lyphochek Whole Blood Immunosuppressant Controls

Cyclosporine | Everolimus* | Sirolimus | Tacrolimus (FK 506)

*Available in Liquichek Whole Blood Immunosuppressant Control only.
Refer to myeinserts.com or the package insert of currently available lots for specific analyte and stability claims.

	Liquichek Whole Blood Immunosuppressant Control				Lyphochek Whole Blood Immunosuppressant Control				
	Level 1	Level 2	Level 3	Level 4	Level 1	Level 2	Level 3	Level 4	Level 5
Catalog Number	12000404	12000405	12000406	12000407	274	275	276	277	278
Everolimus		●	●	●					
Cyclosporine Sirolimus Tacrolimus	●	●	●		●	●	●		
Extended/High range methods, including chromatography: Cyclosporine Tacrolimus				●				●	●

Refer to the package insert for instrument-specific ranges for each level.

Did you know. . .

Both Liquichek and Lyphochek Whole Blood Immunosuppressant Controls include high levels of Cyclosporine, suitable for C2 monitoring.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Therapeutic Drug Monitoring Control (TDM)

- For labs that run a high volume of serum therapeutic drug tests or prefer dedicated TDM controls
- Includes markers for monitoring thyroid function and some esoteric drugs
- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 180 day unopened-vial stability at 2–8°C for most analytes
- 30 day open-vial stability at 2–8°C for most analytes

Ordering Information

Cat #	Description	
724	Trilevel (4 of each level)	12 x 5 mL
725	Level 1	12 x 5 mL
726	Level 2	12 x 5 mL
727	Level 3	12 x 5 mL
724X	Trilevel MiniPak (1 of each level)	3 x 5 mL

Analytes

Acetaminophen
Amikacin
Amitriptyline*
Caffeine
Carbamazepine
Carbamazepine (Free)
Chloramphenicol
Clonazepam*
Cortisol
Cyclosporine*
Desipramine
Diazepam
Digoxin
Disopyramide
Estriol (Total)*
Ethosuximide
Flecainide*
Gentamicin
Haloperidol*
Imipramine*
Lidocaine
Lithium
Methotrexate
N-Acetylprocainamide (NAPA)
Nortriptyline*
Phenobarbital
Phenytoin
Phenytoin (Free)
Primidone
Procainamide
Propranolol
Quinidine
Salicylate
T3 (Free)
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)*
T4 (Total)
Theophylline
Thyroid Stimulating Hormone (TSH)
Tobramycin
Tricyclic Antidepressants (TCA) Screen
Valproic Acid
Valproic Acid (Free)
Vancomycin

*No claims are made regarding performance or stability.

Lyphochek Therapeutic Drug Monitoring Control (TDM)

- For labs that run a high volume of serum therapeutic drug tests or prefer dedicated TDM controls
- Contains over 40 analytes including markers for monitoring thyroid function
- Human serum based
- 3 year shelf life at 2–8°C
- 30 day reconstituted stability at 2–8°C for most analytes

Ordering Information

Cat #	Description	
450	Trilevel (4 of each level)	12 x 5 mL
451	Level 1	12 x 5 mL
452	Level 2	12 x 5 mL
453	Level 3	12 x 5 mL
450X	Trilevel MiniPak (1 of each level)	3 x 5 mL

Analytes

Acetaminophen
Amikacin
Amiodarone*
Amitriptyline
Caffeine
Carbamazepine
Carbamazepine (Free)
Chloramphenicol
Cortisol
Cyclosporine
Desipramine
Digoxin
Disopyramide
Estriol (Total)*
Ethosuximide
Flecainide*
Gentamicin
Haloperidol*
Imipramine
Lidocaine
Lithium
Methotrexate
N-Acetylprocainamide (NAPA)
Netilmicin*
Nortriptyline
Phenobarbital
Phenytoin
Phenytoin (Free)
Primidone
Procainamide
Propranolol
Quinidine
Salicylate
T3 (Total)
T3 Uptake/T-Uptake
T4 (Free)
T4 (Total)
Theophylline
Thyroid Stimulating Hormone (TSH)
Tobramycin
Tricyclic Antidepressants (TCA) Screen
Valproic Acid
Valproic Acid (Free)
Vancomycin

*No claims are made regarding performance or stability.

Did you know. . .

Serum based therapeutic drug testing analytes are also available in Bio-Rad's Premium, Immunoassay and Serum Chemistry Controls.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Use Bio-Rad's Therapeutic Drug Monitoring Controls on these popular instruments

Manufacturer/Instrument(s)	TDM (Liquid)	TDM (Lyophilized)	Whole Blood Immunosuppressant (Liquid)	Whole Blood Immunosuppressant (Lyophilized)
Abbott Diagnostics				
ARCHITECT Series	●	●	●	●
Beckman Coulter				
AU Series	●	●	●	●
UniCel DxC Series	●	●		
Ortho Clinical Diagnostics				
VITROS Series	●	●		
Roche Diagnostics				
Cobas 6000 Series/COBAS INTEGRA	●	●		
Elecsys		●		
Hitachi Systems/ MODULAR Systems	●	●		●
Siemens				
ADVIA Series	●	●		
ADVIA Centaur Series	●	●	●	●
Dimension Vista	●	●	●	●
Dimension Series	●	●	●*	●
IMMULITE Series	●	●		
Viva/V-Twin/Viva-E	●	●	●	●
Other				
Chromatography	●	●	●	●

*Required for Dimension Tacrolimus (TAC DF107)
If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Put your data to work–it may be more valuable than you think!

You may be eligible to become a partner in product development and evaluation of new control lots while earning extra money for your laboratory. To learn more visit **QCNet.com/ProductStudies/**

Toxicology Controls

Bio-Rad has the expertise to assist your laboratory in choosing the right control for your method of analysis

Drugs-of-Abuse Controls

Liquichek Qualitative Urine Toxicology Controls 104
Liquichek Urine Toxicology Negative Control 104
Liquichek Opiate Control 105
Liquichek Urine Toxicology Screen Controls 106-108
Liquichek Urine Toxicology Confirm Controls 109

Specialty Controls

Lyphochek Drug Free Serum 110
Lyphochek Benzo/TCA Control–Set B 110
Liquichek Serum Volatiles Control 111
Lyphochek Urine Metals Control 111
Lyphochek Whole Blood Metals Control 111
Lyphochek Whole Blood Control 112

Additional Information

Controls for Popular Specialty Toxicology Instruments Chart 112

Did You Know?

- **Bio-Rad Drugs-of-Abuse** Controls meet SAMHSA* and other agency guidelines and are made from human urine with pH, specific gravity and creatinine concentrations that fall within the limits of normal human urine
- **Certificates of Analysis** are available upon request. Please contact your Bio-Rad technical support representative for more information

For More Information

- **Brochure** Urine Toxicology Controls (Q-1551)
- **Brochure** Controls for Trace Metals Testing (Q-1552)
- **Flyer** Liquichek Opiate Control (Q-1627)

*United States Substance Abuse and Mental Health Services Administration.

Please note that not all products may be available in all countries.

Liquichek Qualitative Urine Toxicology Control, Negative and Positive

Use with qualitative urine drug panels, including POCT methods such as the Bio-Rad TOX/See

- Human urine
- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–25°C

POCT Methods Listed

Ordering Information

Cat #	Description
454	Negative Level . . . . . 6 x 3 mL
455	Positive Level . . . . . 6 x 3 mL
454X	Bilevel MiniPak (1 of each level) . . . . . 2 x 3 mL

Qualitative Control

- Drug-free Negative or Strong Positive
- Smaller packaging
- Room temperature stable up to 30 days after opening

Analyte Target Values

Analytes	Negative* (ng/mL)	Positive (ng/mL)
Amphetamines		
d-Amphetamine	<50	2,000
d-Methamphetamine	<50	2,000
3, 4-Methylenedioxymethamphetamine (MDMA)	<75	750
Barbiturates		
Secobarbital	<50	1,000
Benzodiazepines		
Nordiazepam	<50	3,000
Oxazepam	<50	1,000
Cannabinoids		
11-Nor-Δ-9-THC-9-COOH	<3	150
Cocaine		
Benzoylecgonine	<30	4,000
Ethanol (mg/dL)	<20	250
Lysergic Acid Diethylamide (LSD)	<0.1	2.0
Methadone	<75	750
Methaqualone	<50	750
Opiates		
Morphine (Free)	<50	3,000
Oxycodone	<50	150
Phencyclidine (PCP)	<5	200
Propoxyphene	<50	750
Tricyclic Antidepressants		
Nortriptyline	<20	2,000

*Negative level has been tested and found to be negative for the analytes listed in the package insert. Values above represent the testing method's Limit of Quantitation (LOQ).

Liquichek Urine Toxicology Negative Control

Use with Screening or Confirmatory methods

- Confirmed negative by GC-MS, LC-MS or other methods for 32 common drugs or drug metabolites
- Human urine
- 3 year shelf life at 2–8ºC
- 60 day open-vial stability when stored refrigerated at 2–8ºC

Ordering Information

Cat #	Description
460	Negative Control . . . . . 10 x 20 mL
460X	MiniPak . . . . . 1 x 20 mL

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Opiate Control

- Contains eight drugs or drug metabolites, at concentrations above and below assay cutoffs
- This control has been tested by GC/MS, LC/MS/MS and other methods to confirm the recovery of drug concentration
- Representative values for screening and confirmatory methods provided
- Human urine
- 3 year shelf-life at -20ºC to -70ºC
- 30 day open-vial stability at 2–8ºC

Ordering Information

Cat #	Description
12005786	Level 1 . . . . . 6 x 5 mL
12005787	Level 2 . . . . . 6 x 5 mL
12002594	Level 1 MiniPak . . . . . 1 x 5 mL
12002595	Level 2 MiniPak . . . . . 1 x 5 mL

Gravimetric Reference Values

Analyte (ng/mL)	Level 1	Level 2
6-Monoacetylmorphine (6-MAM, Heroin Metabolite)	7.5	12.5
Buprenorphine	5	15
EDDP (Methadone Metabolite)	50	150
Fentanyl	0.25	0.75
Meperidine*	100	300
Methadone	150	450
Oxycodone	50	150
Tramadol*	100	300

*International use only.

Opiate Control

Targeted for analytes tested in pain management or opioid treatment and compliance programs.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Urine Toxicology Controls

SCREEN CONTROLS

Levels S1 & S2
Levels S1E & S2E

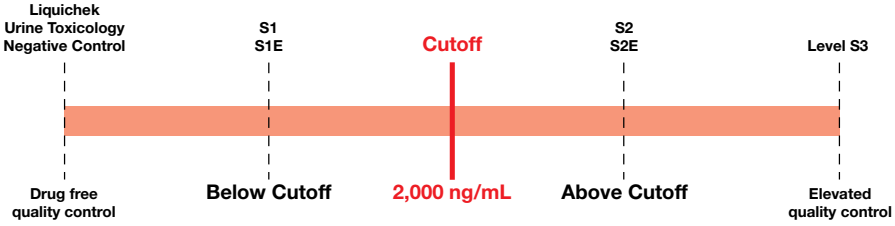
- Human urine
- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
438	Level S1E . . . . . 10 x 10 mL
439	Level S2E . . . . . 10 x 10 mL
461	Level S1 . . . . . 10 x 10 mL
462	Level S2 . . . . . 10 x 10 mL

MiniPaks also available

Determine your cutoff
Controls on this page recommended for **High Opiate cutoff (2,000 ng/mL)**



Gravimetric Reference Values

Select the controls best suited for your Benzodiazepine assays

	Level S1E	Level S2E	Level S1	Level S2
Example assays may include:	*(e.g. Siemens EMIT II, EMIT DAT & Ortho VITROS)*		*(e.g. Roche OnLine)*	
Analytes (ng/mL)	***Lormetazepam***		***Nordiazepam***	
Amphetamines				
d-Amphetamine	–	–	750	1,250
d-Methamphetamine	750	1,250	–	–
MDMA (Ecstasy)	–	–	–	–
Barbiturates				
Secobarbital	150	375	150	375
Benzodiazepines				
Lormetazepam	150	375	–	–
Nordiazepam	–	–	75	375
Oxazepam	–	–	–	–
Cannabinoids				
11-Nor-Δ-9-THC-9-COOH	37.5	65	37.5	65
Cocaine				
Benzoylecgonine	225	375	225	375
Ethanol (mg/dL)	40	70	40	70
Lysergic Acid Diethylamide (LSD)	0.3	0.8	0.3	0.8
Methadone	225	375	225	375
Methaqualone	225	375	225	375
Opiates				
Morphine (Free)	1,500	2,500	1,500	2,500
Phencyclidine (PCP)	19	31	19	31
Propoxyphene	225	375	225	375
Tricyclic Antidepressants				
Nortriptyline	750	1,250	750	1,250

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Urine Toxicology Controls

SCREEN CONTROLS

Levels S1E & S2E Low Opiate
Levels S1 & S2 Low Opiate

- Human urine
- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C

Levels S1O & S2O Low Opiate

- Human urine
- 2 year shelf life at -20 to -70°C
- 30 day open-vial stability at 2–8°C
- 45 day closed-vial stability at 2–8°C

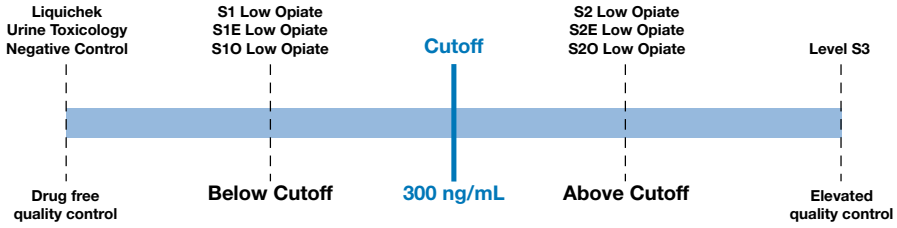
Ordering Information

Cat #	Description
423	Level S1E Low Opiate . . . . . 10 x 10 mL
424	Level S2E Low Opiate . . . . . 10 x 10 mL
466	Level S1 Low Opiate . . . . . 10 x 10 mL
467	Level S2 Low Opiate . . . . . 10 x 10 mL
683	Level S1O Low Opiate . . . . . 10 x 10 mL
706	Level S2O Low Opiate . . . . . 10 x 10 mL

MiniPaks also available

Determine your cutoff

Controls on this page recommended for **Low Opiate cutoff (300 ng/mL)**



Gravimetric Reference Values

Select the controls best suited for your Benzodiazepine assays

	Level S1E Low Opiate	Level S2E Low Opiate	Level S1 Low Opiate	Level S2 Low Opiate	Level S1O Low Opiate	Level S2O Low Opiate
Example assays may include:	*(e.g.: Siemens EMIT II & EMIT DAT, Ortho VITROS)*		*(e.g.: Roche OnLine)*		*(e.g.: Abbott Multigent, Thermo DRI)*	
Analytes (ng/mL)	***Lormetazepam***		***Nordiazepam***		***Oxazepam***	
Amphetamines						
d-Amphetamine	–	–	750	1,250	–	–
d-Methamphetamine	750	1,250	–	–	750	1,250
MDMA (Ecstasy)	–	–	–	–	–	–
Barbiturates						
Secobarbital	150	375	150	375	150	375
Benzodiazepines						
Lormetazepam	150	375	–	–	–	–
Nordiazepam	–	–	75	375	–	–
Oxazepam	–	–	–	–	100	300
Cannabinoids						
11-Nor-Δ-9-THC-9-COOH	37.5	65	37.5	65	37.5	65
Cocaine						
Benzoylecgonine	225	375	225	375	225	375
Ethanol (mg/dL)	40	70	40	70	40	70
Lysergic Acid Diethylamide (LSD)	0.3	0.8	0.3	0.8	0.3	0.8
Methadone	225	375	225	375	225	375
Methaqualone	225	375	225	375	225	375
Opiates						
Morphine (Free)	225	375	225	375	225	375
Phencyclidine (PCP)	19	31	19	31	19	31
Propoxyphene	225	375	225	375	225	375
Tricyclic Antidepressants						
Nortriptyline	750	1,250	750	1,250	–	–

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Urine Toxicology Controls

SCREEN CONTROLS

Levels S1S & S2S

- Contains six drugs of abuse at concentrations 20-25% below and above SAMHSA's recommended cutoff levels
- Human urine
- 3 year shelf life at 2–8ºC
- 30 day open-vial stability at 2–8°C

Ordering Information

Catalog #	Description
409	Level S1S . . . . . 10 x 10 mL
419	Level S2S . . . . . 10 x 10 mL

MiniPaks also available

Determine your cutoff
Levels S1S & S2S recommended for labs running SAMHSA* cutoffs

Level S3

- An elevated control for most urine Drugs-of-Abuse cutoffs
- For Low Opiate Cutoff
- Human Urine
- 3 year shelf life at 2–8ºC
- 30 day open-vial stability at 2–8°C

Ordering Information

Catalog #	Description
463	Level S3 . . . . . 10 x 10 mL

MiniPaks also available

Determine your cutoff
Level S3 recommended for labs that need an Elevated/Strong Positive control

Gravimetric Reference Values

Analytes (ng/mL)	Level S1S	SAMHSA* Screen Cutoffs	Level S2S	Level S3
Amphetamines				
d-Amphetamine	–	–	–	2,000
d-Methamphetamine	375	500	625	–
MDMA (Ecstasy)	375	500	625	–
Barbiturates				
Secobarbital	–	–	–	1,000
Benzodiazepines				
Lormetazepam	–	–	–	–
Nordiazepam	–	–	–	1,000
Oxazepam	–	–	–	–
Cannabinoids				
11-Nor-Δ-9-THC-9-COOH	37.5	50	65	125
Cocaine				
Benzoylecgonine	113	150	185	500
Ethanol (mg/dL)	–	–	–	250
Lysergic Acid Diethylamide (LSD)	–	–	–	2.0
Methadone	–	–	–	750
Methaqualone	–	–	–	750
Opiates				
Morphine (Free)	1,500	2,000	2,500	750
Phencyclidine (PCP)	19	25	31	200
Propoxyphene	–	–	–	750
Tricyclic Antidepressants				
Nortriptyline	–	–	–	2,000

*United States Substance Abuse and Mental Health Services Administration.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Urine Toxicology Controls

CONFIRM CONTROLS

- Human urine
- 3 year shelf life at 2–8ºC
- 30 day open-vial stability at 2–8ºC

Level C1
Contains drugs at the Limit of Quantitation (LOQ) or at very low concentrations

Levels C2 & C2 Low Opiate
Contains drugs at 20-25% below confirmatory drug cutoff levels

Levels C3 & C3 Low Opiate
Contains drugs at 20-25% above confirmatory drug cutoff levels

Level C4
Contains drugs at elevated concentrations

Ordering Information

MiniPaks also available

Catalog #	Description	Catalog #	Description
441	Level C1. . . . . 10 x 20 mL	444	Level C4. . . . . 10 x 20 mL
442	Level C2. . . . . 10 x 20 mL	468	Level C2 Low Opiate . . . . 10 x 20 mL
443	Level C3. . . . . 10 x 20 mL	469	Level C3 Low Opiate . . . . 10 x 20 mL

Gravimetric Reference Values

Analytes (ng/mL)	Designed for SAMHSA* Cutoff					
	Level C1	Level C2	Level C3	Level C4	Level C2 Low Opiate	Level C3 Low Opiate
d-Amphetamine	100	188	312	750	375	625
d-Methamphetamine	100	188	312	750	375	625
3, 4-Methylenedioxymethamphetamine (MDMA)	100	188	312	750	–	–
3, 4-Methylenedioxyamphetamine (MDA)	100	188	312	750	–	–
3, 4-Methylenedioxy-N-ethylamphetamine (MDEA)	100	188	312	750	–	–
Amobarbital	80	150	250	1,200	150	250
Butalbital	80	150	250	1,200	150	250
Pentobarbital	80	150	250	1,200	150	250
Phenobarbitital	80	150	250	1,200	150	250
Secobarbital	80	150	250	1,200	150	250
Alpha-Hydroxyalprazolam	80	225	375	1,000	225	375
Nordiazepam	80	225	375	1,000	225	375
Oxazepam**	**	**	**	**	**	**
11-Nor-Δ-9-THC-9-COOH	6	11.5	18.5	150	11.5	18.5
Benzoylecgonine	40	75	125	300	115	185
Ethanol (mg/dL)	20	40	70	250	40	70
Lysergic Acid Diethylamide (LSD)	0.2	0.35	0.65	4.0	0.35	0.65
Methadone	120	225	375	1,000	225	375
EDDP (Methadone Metabolite)**	**	**	**	**	**	**
Methaqualone	120	225	375	1,000	225	375
6-Monoacetylmorphine**	**	**	**	**	**	**
Codeine	120	1,500	2,500	4,000	225	375
Morphine-3-β-d-Glucuronide	120	1,500	2,500	4,000	225	375
Phencyclidine (PCP)	10	19	31	100	19	31
Norpropoxyphene	120	225	375	1,000	225	375
Propoxyphene	120	225	375	1,000	225	375

*United States Substance Abuse and Mental Health Services Administration.
**Analyte present, no claims are made regarding performance or stability.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Bio-Rad Controls for Lead, Alcohol, Environmental Toxins and Other Specialty Tests

Bio-Rad offers QC solutions for the unique challenges of specialty toxicology testing, such as drug-free baseline serum or a control suitable for the special needs of analytical methods. Other specialty controls are available for monitoring drugs, lead, metals and volatile compounds.

Lyphochek Drug Free Serum

- Tested by HPLC and other methods
- Found to be drug free for more than 60 therapeutic drugs and illicit compounds
- Human serum
- 3 year shelf life at 2–8°C
- 10 day reconstituted stability at 2–8°C

Ordering Information

Catalog #	Description
456	Single Level . . . . . 12 x 10 mL
456X	MiniPak . . . . . 1 x 10 mL

Analytes

Acetaminophen
Alprazolam
Amikacin
Amitriptyline
Amphetamine
Caffeine
Cannabinoids
Carbamazepine
Chloramphenicol
Chlordiazepoxide
Cimetidine
Clomipramine
Clonazepam
Cocaine
Codeine
Cyclosporine
Desalkylflurazepam
Desipramine
Desmethyldoxepin
Diazepam
Digitoxin
Digoxin
Disopyramide*
Doxepin
Ethosuximide
Flecainide
Gentamicin
Glutethimide
Haloperidol
Hydromorphone
Ibuprofen
Imipramine
Lidocaine
Lithium
Meperidine
Methadone
Methamphetamine
Methaqualone
Methotrexate
Methyprylon
Morphine
N-Acetylprocainamide (NAPA)
Nicotine
Norclomipramine
Nordiazepam
Nordoxepin
Nortriptyline
Oxazepam
Phencyclidine (PCP)
Phenobarbital
Phenothiazines
Phenytoin
Primidone
Procainamide
Propoxyphene
Propranolol
Pyrilamine
Quinidine
Quinine
Salicylate
Secobarbital
Theophylline
Tobramycin
Trazodone
Valproic Acid
Vancomycin

*No claim is made for expected value or stability.

Lyphochek Benzo/TCA Control–Set B

- Used in conjunction with separation techniques, such as chromatography or mass spectrometry in identification and quantification of benzodiazepine and tricyclic antidepressant drugs
- Compatible with Roche COBAS INTEGRA Serum Benzodiazepines Assay for Alprazolam measurements
- Human serum based
- 3 year shelf life at 2–8°C
- 14 day reconstituted stability at 2–8°C

Ordering Information

Catalog #	Description
663	Level 1 . . . . . 6 x 5 mL
664	Level 2 . . . . . 6 x 5 mL
665X	Bilevel MiniPak (1 of each level) . . . . . 2 x 5 mL

Analytes

Alprazolam
Clomipramine
Norclomipramine
Trazodone

Clonazepam has been added to this product as a service to laboratories that wish to investigate this analyte. No claims are made regarding performance or stability.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Serum Volatiles Control

- Value assigned for volatile substances by multiple methods, including GC and clinical methods (Ethanol)
- Serum based
- 3 year shelf life at 2–8°C
- 10 day open-vial stability at 2–8°C

Ordering Information

Cat #	Description
383	Level 1 . . . . . 6 x 5 mL
384	Level 2 . . . . . 6 x 5 mL
385X	Bilevel MiniPak (1 of each level) . . . . . 2 x 5 mL

Analytes

Acetone
Ethanol
Ethylene Glycol
Isopropanol (Isopropyl Alcohol)
Methanol (Methyl Alcohol)

Lyphochek Urine Metals Control

- Supports toxicological environmental and industrial testing by providing assayed values of critical trace elements, heavy metals and organic metabolites by AA, GC-MS, HPLC and ICP-MS
- Human urine
- 3 year shelf life at 2–8°C
- 5 day reconstituted stability at 2–8°C
- 30 day reconstituted stability at -10°C to -20°C

Ordering Information

Catalog #	Description
400	Level 1 . . . . . 10 x 25 mL
405	Level 2 . . . . . 10 x 25 mL
402X	Bilevel MiniPak (1 of each level) . . . . . 2 x 25 mL

Analytes

5-Aminolevulinic Acid (ALA)
Aluminum
Antimony
Arsenic
Cadmium
Chromium
Cobalt
Copper
Fluoride
Hippuric Acid
Lead
Magnesium
Mandelic Acid
Manganese
Mercury
Nickel
Pentachlorophenol
Phenol
Phenylglyoxylic Acid
Selenium
Thallium
Trichloroacetic Acid
Zinc

Lyphochek Whole Blood Metals Control

- Contains major heavy metals of toxicological and environmental significance for whole blood analysis
- Assayed values for Lead include AA, ASV, ICP-MS and IDMS
- Human whole blood based
- 3 year shelf life at 2–8°C
- 14 day reconstituted stability at 2–8°C

Ordering Information

Catalog #	Description
527	Level 1 . . . . . 6 x 2 mL
528	Level 2 . . . . . 6 x 2 mL
529	Level 3 . . . . . 6 x 2 mL
528X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analytes

Arsenic
Cadmium
Lead
Mercury
Thallium

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Lyphochek Whole Blood Control

- Assayed values for Red Cell Folate for common clinical methods
- Assayed values for Lead include AA, ASV, ICP-MS
- Human whole blood based
- 3 year shelf life at 2–8°C
- 2 day reconstituted stability at 2–8ºC (Folate)
- 14 day reconstituted stability at 2–8ºC (Lead)
- 30 day reconstituted stability at -10º to -20ºC

Ordering Information

Catalog #	Description
561	Level 1 . . . . . 6 x 2 mL
562	Level 2 . . . . . 6 x 2 mL
563	Level 3 . . . . . 6 x 2 mL
560X	Trilevel MiniPak (1 of each level) . . . . . 3 x 2 mL

Analytes

Lead | Red Cell Folate | Serotonin*

*No claims are made regarding performance or stability.

Use Bio-Rad's Specialty Toxicology Controls on these popular instruments

Manufacturer/Instrument(s)	Drug Free Serum	Serum Volatiles	Urine Metals	Whole Blood Metals	Benzo/TCA Set B	Whole Blood Control
Abbott Diagnostics						
ARCHITECT Series		●				
Beckman Coulter						
Access Series/UniCel DxI						●
AU Series		●				
UniCel DxC Series	●	●				
Ortho Clinical Diagnostics						
VITROS Series		●				
VITROS ECi						●
Roche Diagnostics						
Cobas 6000 Series/COBAS INTEGRA		●			●	
Elecsys Systems						●
Hitachi Systems		●				
Siemens						
ADVIA Systems		●				
ADVIA Centaur Systems	●					●
Dimension Vista	●	●				
Dimension Series		●				
IMMULITE Series						●
V-Twin/Viva-E Series	●					
Tosoh						
AIA Series						●
Other						
AA, AA Graphite Furnace			●	●		●
GC, GC-MS	●	●	●			
ICP-MS			●	●		●
LC-MS/MS, HPLC	●				●	

If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

Glossary

AA = Atomic Absorbtion
GC, GC-MS = Gas Chromatography, Gas Chromatography-Mass Spectrometry
ICP-MS = Inductively Coupled Plasma-Mass Spectrometry
LC-MS/MS, HPLC = Liquid Chromatography-Mass Spectrometry/Mass Spectrometry, High Performance Liquid Chromatography

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Urinalysis Controls

Versatile packaging and comprehensive analytes for today's laboratory

Urinalysis Controls

qUAntify Advance Control 114

qUAntify Plus Control 114

Liquichek Urinalysis Control 115

Did You Know?

- **Bio-Rad Urinalysis** controls are available in a variety of convenient packaging options, including dropper bottles, flip-top squeeze botles and centrifuge tubes

For More Information

- **Brochure** Urinalysis Controls (Q-1508)

Please note that not all products may be available in all countries.

qUAntify Advance Control

- Available in an easy-to-use plastic squeeze bottle
- Dipstick tests include Pregnancy and Microalbumin
- Human urine solution
- 18 month shelf life at 2-8ºC
- 31 day open-vial stability at 2-25ºC, including ketones

Ordering Information

Cat #	Description
12007028	Bilevel (3 of each level) . . . . . 6 x 12 mL
12007029	Bilevel MiniPak (1 of each level) . . . . . 2 x 12 mL

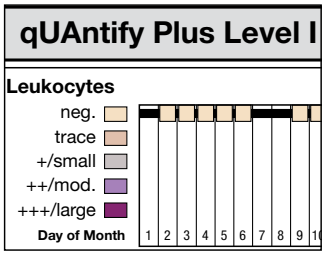
Analytes

Albumin
Ascorbic Acid
Bilirubin
Blood
Creatinine
Glucose
Hemoglobin (HGB)
Ketones
Leukocytes
Microalbumin
Nitrite
pH
Pregnancy (hCG)
Protein (Total)
Protein-to-Creatinine Ratio
Specific Gravity
Urobilinogen

qUAntify Plus Control

- Choose from a conical 12 mL tube or 120 mL flip top squeeze bottle
- Both options can be used for urine dipstick and microscopic testing
- Liquid
- 2 year shelf life at 2-8ºC
- 31 day open-vial stability at 2-25ºC for most analytes

POCT Methods Listed



Example Peer Group Report

Ordering Information

Catalog #	Description
995	Bilevel (5 of each level)/Tube . . . . . 10 x 12 mL
995X	Bilevel MiniPak (1 of each level)/Tube. . . . . 2 x 12 mL
962	Bilevel (2 of each level)/Bottle . . . . . 4 x 120 mL
963	Level 1/Bottle. . . . . 4 x 120 mL
964	Level 2/Bottle. . . . . 4 x 120 mL
962X	Bilevel MiniPak (1 of each level)/Bottle. . . . . 2 x 120 mL

Analytes

Albumin
Albumin-to-Creatinine Ratio
Ascorbic Acid*
Bilirubin
Blood
Creatinine
Glucose
Hemoglobin (HGB)
Ketones
Leukocytes
Microalbumin
Microscopics (RBC, WBC, Crystals, Casts)
Nitrite
pH
Pregnancy (hCG)
Protein (Total)
Protein-to-Creatinine Ratio
Specific Gravity
Urobilinogen

*Tested and found to be negative.

Optimize your Urinalysis workflow by choosing from our diverse selection of user-friendly Urinalysis Controls.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Liquichek Urinalysis Control

- Ready-to-use urine control formulated to monitor the precision of dipstick and microscopic analyzers
- Available in 12 mL glass vials
- Liquid, human urine based
- 2.5 year shelf life at 2–8°C
- 30 day open-vial stability at 2–25°C

Ordering Information

Catalog #	Description	
435	Bilevel (6 of each level)	12 x 12 mL
436	Level 1	12 x 12 mL
437	Level 2	12 x 12 mL
435X	Bilevel MiniPak (1 of each level)	2 x 12 mL

Analytes

Bilirubin
Blood
Clarity
Color
Creatinine
Glucose
Ketones
Leukocytes
Microalbumin
Microscopics (RBC, WBC, Crystals, Casts)
Nitrite
Osmolality
pH
Pregnancy (hCG)
Protein (Total)
Protein-to-Creatinine Ratio
Specific Gravity
Urobilinogen

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Dispenser Tips for Screw Caps

- For controls fitted with a screw cap closure
- Disposable plastic tips enable fluid delivery directly from glass vial
- Reduces risk of product contamination that may be introduced via pipetting
- Easy and convenient to use

Ordering Information

Catalog #	Description
987000	Dispenser Tips for Screw Caps 100/Package

Dispenser Tips for Crimp Seals

- For controls fitted with a metal crimp seal and stopper
- Plastic tips allow the glass vial to be used as a dropper bottle
- Easy and convenient to use

Ordering Information

Catalog #	Description
588	Dispenser Tips for Crimp Seals 50/Package

Blood Gas Ampule Breaker

- Designed to reduce the risk of injury when opening blood gas ampules
- Easy and convenient to use
- Reusable

Ordering Information

Catalog #	Description
587	Blood Gas Ampule Breaker . . . . . 1 each

Quality Control Tray

- 28-position durable acrylic tray to prepare or transport controls
- Accommodates up to 10 large and 18 standard sized control vials or dropper bottles
- Dimensions: 10” x 9.5” x 1.25” (25.4 cm x 24.1 cm x 3.2 cm)

Ordering Information

Catalog #	Description
12000846	Quality Control Tray . . . . . 1 unit

Unity Binder

- Keep your Unity Interlaboratory Program reports organized and readily available
- 2 inch Capacity
- 3-Ring for Letter Size (8.5 x 11 inches)
- Monthly Tabs Provided

To request a binder, please call your local Bio-Rad office.

Refer to myeInserts.com or the package insert of currently available lots for specific analyte and stability claims.

Resources

Analyte Charts

Control Analyte Index 118
Blood Gas Controls Analyte Index 140
Cardiac Assessment Controls Analyte Index 140
Hematology Controls Analyte Index 141
InteliQ Analyte Index 142
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QC Products in Dimension Vista Vials Analyte Index 148
External Quality Assurance Services (EQAS) Analyte Index 150

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Additional Information

How to Place an Order 161
Chemical Hazard Communication 162
CE Marking and Labeling Symbols 163
Legal Notices 164
Worldwide Contact Information . . . . . Inside Back Cover

Did You Know?

- **Bio-Rad controls** offer over **560** analytes

Please note that not all products may be available in all countries.

- ● Analyte present
- ❍ Analyte present in endogenous levels
- ■ Analyte present and no claims are made regarding performance or stability
- ❑ Analyte present in endogenous levels and no claims are made regarding performance or stability
- ◗ Tested and found to be negative
- ◆ Specimen validity criteria
- ✖ Values not for diagnostic use
- ▲ No claim is made for expected value or stability

See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
3-Methoxytyramine																															
5-Aminolevulinic Acid (ALA)																															
5-HIAA																															
6-Monoacetylmorphine						■																									
11-Ketoetiocholanolone																															
11-Nor-Δ-9-THC-9-COOH						●																									
11-Ketoandrosterone																															
11-Deoxycortisol																												▲	●		
11-β-Hydroxy-Androsterone																															
11-β-Hydroxy-Etiocholanolone																															
17-α-Hydroxyprogesterone																												▲	●		
17-Hydroxycorticosteroids																															
17-Ketosteroids																															
17-Ketogenic Steroids																															
25-Hydroxy Vitamin D					●																							▲	❍	●	
α-1-Acid Glycoprotein					●							❍																			●
α-1-Antitrypsin					❍					❍	❍	❍																			●
α-1-Globulin					❍						❍																				
α-2-Globulin					❍						❍																				
α-2-Macroglobulin																															●
αHBDH										❍	❍	❍																			
β-2-Microglobulin					●							❍																		●	●
β-Globulin					❍																										
β-hCG					●																										
γ-Globulin					❍						❍																				
Acetaminophen					●					●	●	●							◗									●	●	●	
Acetone																															
Acid Phosphatase (Total)					●					●	●	●																			
ACTH																											●		●		
Activated Partial Thromboplastin Time (APTT)															●											●					
ADH																											▲				
ADNase B																															●
ALA																															
Albumin					●					●	●	●																			●
Albumin (BCG)					●																										
Albumin (BCP)					●																										
Albumin-to-Creatinine Ratio																															
Albumin-to-Globulin Ratio					❍																										
Alcohol (Ethanol)						●					●	●										●									
Alcohol (Isopropanol)																															
Alcohol (Methanol)																															
Aldolase																															
Aldosterone																											●	●	●		
Alkaline Phosphatase (ALP)					●					●	●	●																			
Alpha-Hydroxyalprazolam						●																									
Alphafetoprotein (AFP)					●					❍													●					●	●	●	
Alprazolam														●					◗												
ALT/SGPT					●					●	●	●																			
Aluminum																															
Amikacin					●						●	●							◗									●	●	●	
Amiodarone																												▲	▲		
Amitriptyline																			◗									▲	●		

Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	See page number
										●																						3-Methoxytyramine
										●																	●					5-Aminolevulinic Acid (ALA)
										●																						5-HIAA
						●																										6-Monoacetylmorphine
										▲																						11-Ketoetiocholanolone
																																11-Nor-Δ-9-THC-9-COOH
										▲																						11-Ketoandrosterone
																																11-Deoxycortisol
										▲																						11-β-Hydroxy-Androsterone
										▲																						11-β-Hydroxy-Etiocholanolone
																																17-α-Hydroxyprogesterone
										●																						17-Hydroxycorticosteroids
										●																						17-Ketosteroids
										●																						17-Ketogenic Steroids
														●	●																	25-Hydroxy Vitamin D
●																																α-1-Acid Glycoprotein
●																						❍	❍									α-1-Antitrypsin
																●																α-1-Globulin
																●																α-2-Globulin
●																																α-2-Macroglobulin
																					❍	❍	❍									αHBDH
●																			●	●					▲							β-2-Microglobulin
																●																β-Globulin
																																β-hCG
																●																γ-Globulin
																	●	●			●	●	●									Acetaminophen
													●																			Acetone
																					●	●	●									Acid Phosphatase (Total)
																				●												ACTH
																																Activated Partial Thromboplastin Time (APTT)
																																ADH
																																ADNase B
										●																	●					ALA
●								●	●							●					●	●	●									Albumin
																																Albumin (BCG)
																																Albumin (BCP)
									●																							Albumin-to-Creatinine Ratio
																																Albumin-to-Globulin Ratio
													●								●											Alcohol (Ethanol)
													●																			Alcohol (Isopropanol)
													●																			Alcohol (Methanol)
																					▲											Aldolase
										●										●												Aldosterone
																					●	●	●									Alkaline Phosphatase (ALP)
																																Alpha-Hydroxyalprazolam
			●																●	●		❍										Alphafetoprotein (AFP)
																																Alprazolam
																					●	●	●									ALT/SGPT
																											●					Aluminum
																	●	●					●									Amikacin
																		▲														Amiodarone
																	▲	●														Amitriptyline

- ● Analyte present
- ❍ Analyte present in endogenous levels
- ■ Analyte present and no claims are made regarding performance or stability
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	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
Ammonia					●																	●									
Amobarbital						●																									
AMP (Cyclic)																															
Amphetamines						●													◗												
Amylase					●					●	●	●																			
Amylase (Alpha)										●																					
Amylase (Pancreatic)					●					●	●	●																			
ANA, Centromere Pattern													●																		
ANA, Homogeneous Pattern													●																		
ANA, Mitotic Spindle Pattern													●																		
ANA, Nucleolar Pattern													●																		
ANA, Speckled Pattern													●																		
Androstenedione																												●	●		
Androsterone																															
Angiotensin I																												▲	❍		
Anti-CCP												❍																			●
Anti-Cytomegalovirus (CMV)				●																											
Anti-HAV				●																											
Anti-HBc				●																											
Anti-HBe				●																											
Anti-HBs				●																											
Anti-HCV				●																											
Anti-HIV-1				●																											
Anti-HIV-2				●																											
Anti-HTLV-I				●																											
Anti-HTLV-I/II				●																											
Anti-HTLV-II				●																											
Anti-Mitochondrial													●																		
Anti-Mullerian Hormone								●																							
Anti-nDNA													●																		
Anti-RNP													●																		
Anti-Scl-70													●																		
Anti-Sm													●																		
Anti-Smooth Muscle													●																		
Anti-SS-A													●																		
Anti-SS-B													●																		
Anti-Thyroglobulin (Anti-Tg)					●																							▲	▲		
Anti-Thyroperoxidase (Anti-TPO)					●																							▲	▲		
Anti-*Treponema pallidum* (Syphilis)				●																											
Antimony																															
Antistreptolysin O (ASO)					●							❍																			●
Antithrombin III (AT III)															●											●					●
Apolipoprotein A-1					❍					❍	❍	❍																			●
Apolipoprotein B					❍					❍	❍	❍																			●
Arsenic																															
Ascorbic Acid																															
AST/SGOT					●					●	●	●																			
Autoimmune Negative													●																		
Barbiturates						●																									
Basophils (BASO)			●																												
Benzodiazepines						●								●																	

See page number

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- ▲ No claim is made for expected value or stability

Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	
																																Ammonia
																																Amobarbital
										▲																						AMP (Cyclic)
																																Amphetamines
																					●	●	●			●						Amylase
																						●										Amylase (Alpha)
																						●	●									Amylase (Pancreatic)
																																ANA, Centromere Pattern
																																ANA, Homogeneous Pattern
																																ANA, Mitotic Spindle Pattern
																																ANA, Nucleolar Pattern
																																ANA, Speckled Pattern
																																Androstenedione
										▲																						Androsterone
																																Angiotensin I
																																Anti-CCP
																																Anti-Cytomegalovirus (CMV)
																																Anti-HAV
																																Anti-HBc
																																Anti-HBe
																																Anti-HBs
																																Anti-HCV
																																Anti-HIV-1
																																Anti-HIV-2
																																Anti-HTLV-I
																																Anti-HTLV-I/II
																																Anti-HTLV-II
																																Anti-Mitochondrial
																																Anti-Mullerian Hormone
																																Anti-nDNA
																																Anti-RNP
																																Anti-Scl-70
																																Anti-Sm
																																Anti-Smooth Muscle
																																Anti-SS-A
																																Anti-SS-B
														●																		Anti-Thyroglobulin (Anti-Tg)
														●																		Anti-Thyroperoxidase (Anti-TPO)
																																Anti-*Treponema pallidum* (Syphilis)
																											●					Antimony
●																																Antistreptolysin O (ASO)
																																Antithrombin III (AT III)
	❍																					❍	❍									Apolipoprotein A-1
	❍																					❍	❍									Apolipoprotein B
										●																	●				●	Arsenic
								●	◗																							Ascorbic Acid
																					●	●	●									AST/SGOT
																																Autoimmune Negative
										▲																						Barbiturates
																																Basophils (BASO)
																																Benzodiazepines

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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
Benzoylecgonine (Cocaine Metabolite)						●																									
Bile Acids												●																			
Bilirubin																															
Bilirubin (Direct)					●					●	●	●																			
Bilirubin (Indirect)										●																					
Bilirubin (Neonatal)					●						●	●																			
Bilirubin (Total)					●					●	●	●																			
Blood																															
BNP		●			●																										
Borrelia burgdorferi IgG				●																											
Buprenorphine																															
Butalbital						●																									
C-Peptide					●																								●		
C-Telopeptide (CTx)																															
C1 Inhibitor																															●
CA 15-3					●																									●	
CA 19-9					●																									●	
CA 27.29					●																										
CA 50*																															
CA 72-4*					●																										
CA 125					●																									●	
Cadmium																															
Caffeine												●							◗									●	●	●	
Calcitonin																													●		
Calcium					●					●	●																				
Calcium (CPC)					●																										
Calcium (Ionized)	●				●					❍	●	●																			
Calcium (Total)										●	●	●																			
Cannabinoid Metabolite						●																									
Cannabinoids						●													◗												
Carbamazepine					●					●	●	●							◗									●	●	●	
Carbamazepine (Free)																												▲	▲		
CASA*																															
Casts																															
CEA					●					❍																		●	●	●	
Cellular Hemoglobin Concentration Mean (CHCM)			●																												
Cellular Hemoglobin Concentration Mean of Gated Red Blood Cells (CHCMg)			●																												
Cellular Hemoglobin Concentration Mean of Reticulocytes (CHCMr)			●																												
Centromere Pattern													●																		
Ceruloplasmin					❍					❍	❍	❍																			●
CH50																															▲
Chlamydia trachomatis				●																											
Chlamydia trachomatis IgG				●																											
Chloramphenicol																			◗									▲	●		
Chlordiazepoxide																			◗												
Chloride	●				●					●	●	●																			
Cholesterol (HDL)					●					●	●	●																			
Cholesterol (LDL)					●					●	●	●																			
Cholesterol (Total)					●					●	●	●																			
Cholinesterase					❍					❍	❍	❍																			
Chromium																															
Cimetidine																			◗												

*International use only.

58	20	54	54	31	22	105	21	114	114	22	59	47	111	52	52	60	101	101	53	53	20	19	18	115	56	23	111	112	100	100	111	See page number
Immunology Plus (Lyophilized)	Lipids	Maternal Serum 1st Trimester	Maternal Serum II	Meter Trax	Microalbumin	Opiate	Pediatric	qUAntify Advance	qUAntify Plus	Quantitative Urine	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay (Liquid)	Specialty Immunoassay (Lyophilized)	Spinal Fluid	TDM (Liquid)	TDM (Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiqual	Urinalysis	Urine Bone Markers	Urine Chemistry	Urine Metals	Whole Blood	Whole Blood Immunosuppressant (Liquid)	Whole Blood Immunosuppressant (Lyoph.)	Whole Blood Metals	
																																Benzoylecgonine (Cocaine Metabolite)
																																Bile Acids
								●	●															●								Bilirubin
							●														▲	●	●									Bilirubin (Direct)
							●														▲	●										Bilirubin (Indirect)
							●																●									Bilirubin (Neonatal)
							●	●	●												●	●	●	●								Bilirubin (Total)
								●	●															●								Blood
																																BNP
																																Borrelia burgdorferi IgG
						●																										Buprenorphine
																																Butalbital
														●																		C-Peptide
																									●							C-Telopeptide (CTx)
																																C1 Inhibitor
																			●	●												CA 15-3
																			●	●												CA 19-9
																			●	●												CA 27.29
																				●												CA 50*
																			●	●												CA 72-4*
																			●	●												CA 125
																											●				●	Cadmium
							●										●	●														Caffeine
																				●												Calcitonin
							●			●											●	●				●						Calcium
																																Calcium (CPC)
																					▲	❍	●									Calcium (Ionized)
							●			●											●	●	●									Calcium (Total)
																																Cannabinoid Metabolite
																																Cannabinoids
																	●	●			●	●	●									Carbamazepine
																	●	●														Carbamazepine (Free)
																				▲												CASA*
									●															●								Casts
																			●	●		❍										CEA
																																Cellular Hemoglobin Concentration Mean (CHCM)
																																Cellular Hemoglobin Concentration Mean of Gated Red Blood Cells (CHCMg)
																																Cellular Hemoglobin Concentration Mean of Reticulocytes (CHCMr)
																																Centromere Pattern
●																						❍	❍									Ceruloplasmin
																																CH50
																																Chlamydia trachomatis
																																Chlamydia trachomatis IgG
																	●	●														Chloramphenicol
																																Chlordiazepoxide
							●			●						●					●	●	●			●						Chloride
	●																				■	●	●									Cholesterol (HDL)
	●																					●	●									Cholesterol (LDL)
	●																				●	●	●									Cholesterol (Total)
																						❍	❍									Cholinesterase
																											●					Chromium
																																Cimetidine

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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
CK (Total)		●			●																										
CK-MB Isoenzyme		●			●						▲																	●			
Clarity																															
Clomipramine														●					◗												
Clonazepam																			◗												
Clostridium difficile *(C diff.)*				●																											
CO_2					●					●	●	●																			
Cobalt																															
Cocaine						●													◗												
Cocaine Metabolite						●																									
Codeine						●													◗												
Color																															
Complement C1q																															
Complement C3					❍					❍	❍	❍																			●
Complement C4					❍					❑	❍	❍																			●
Copper					❍					❍	❍	❍																			
Coproporphyrin																															
Cortisol					●					●	●	●															●	●	●	●	
Creatine Kinase (CK)					●					●	●	●																			
Creatinine					●	◆				●	●	●																			
CRP		●			●							●								●											●
Crystals																															
Cyclosporine																			◗									●	▲		
Cyfra 21-1*					●																									●	
Cystatin C					❍							❍																			❍
Cystine																															
Cytomegalovirus (CMV) IgG				●																											
Cytomegalovirus (CMV) IgM				●																											
D1 House Dust Mite *(D. pteronyssinus)*							●																								
D2 House Dust Mite *(D. farinae)*							●																								
d-Amphetamine						●																									
D-dimer																●															
d-Methamphetamine						●																									
Dehydroepiandrosterone (DHEA)																												▲	▲		
Deoxypyridinoline (DPD)																															
Desalkylflurazepam																			◗												
Desipramine																			◗									▲	▲		
Desmethyldoxepin																			◗												
DHEA Sulfate					●																							●	●	●	
Diazepam																			◗												
Digitoxin		●			●														◗				●								
Digoxin					●					●	●	●							◗									●	●	●	
Disopyramide												●							▲									▲	●	●	
Dopamine																					●										
Doxepin																			◗												
E1 Cat Dander *(Felis domesticus)*							●																								
E3 Horse Dander *(Equus caballus)*							●																								
E5 Dog Dander *(Canis familiaris)*							●																								
EBNA IgG				●																											
EBV EA-D IgG				●																											
Ecstasy (MDMA)						●																									
EDDP (Methadone Metabolite)						■																									

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Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	
																																CK (Total)
																							▲									CK-MB Isoenzyme
																								●								Clarity
																																Clomipramine
																	▲															Clonazepam
																																Clostridium difficile *(C diff.)*
																					●	●	●									CO_2
																											●					Cobalt
																																Cocaine
																																Cocaine Metabolite
																																Codeine
																								●								Color
▲																																Complement C1q
●																						❍	❍									Complement C3
●																						▲	❍									Complement C4
										▲											❍	❍	❍				●					Copper
										●																						Coproporphyrin
										●							●	●			●	●	●			●						Cortisol
																					●	●	●									Creatine Kinase (CK)
					●			●	●	●											●	●	●	●	●	●						Creatinine
●	●																															CRP
									●															●								Crystals
																	▲	●											●	●		Cyclosporine
																			●	●												Cyfra 21-1*
																																Cystatin C
										▲																						Cystine
																																Cytomegalovirus (CMV) IgG
																																Cytomegalovirus (CMV) IgM
																																D1 House Dust Mite *(D. pteronyssinus)*
																																D2 House Dust Mite *(D. farinae)*
																																d-Amphetamine
																																D-dimer
																																d-Methamphetamine
										▲																						Dehydroepiandrosterone (DHEA)
																									●							Deoxypyridinoline (DPD)
																																Desalkylflurazepam
																	●	●														Desipramine
																																Desmethyldoxepin
																																DHEA Sulfate
																	●															Diazepam
																																Digitoxin
																	●	●			●	●	●									Digoxin
																	●	●														Disopyramide
										●																						Dopamine
																																Doxepin
																																E1 Cat Dander *(Felis domesticus)*
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																																E5 Dog Dander *(Canis familiaris)*
																																EBNA IgG
																																EBV EA-D IgG
																																Ecstasy (MDMA)
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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
Eosinophils (EOS)			●																												
Epinephrine																					●										
Epstein-Barr Virus (VCA) IgG				●																											
Epstein-Barr Virus (VCA) IgM				●																											
Erythrocyte Sedimentation Rate (ESR)			●																												
Erythropoietin (EPO)					●																										
Estradiol					●																		●					●	●	●	
Estriol (Free)																							●					●	●	●	
Estriol (Total)																							▲					▲	▲		
Estrogen (Total)																												▲	●		
Ethanol					●	●					●	●										●									
Ethosuximide																			◗									●	●	●	
Ethylene Glycol																															
Etiocholanolone																															
Everolimus																															
F1 Egg White *(Gallus spp.)*							●																								
F2 Cow Milk *(Bos. spp.)*							●																								
F13 Peanut *(Arachis hypogaea)*							●																								
Factors II, V, VII, VIII, IX, X, XI and XII																										●					
Fentanyl																															
Ferritin					❍				●		❍	❍											●					●	●	●	●
Fibrinogen															●											●					
Flecainide																			◗									▲	▲		
Fluoride																															
Folate					●				●																			●	●	●	
Folate (RBC)																															
Fructosamine																												❑	❑		
FSH					●																		●					●	●	●	
G2 Bermuda Grass *(Cynodon dactylon)*							●																								
G3 Cocksfoot/Orchard Grass *(Dactylis glomerata)*							●																								
G6 Timothy Grass *(Phleum pratense)*							●																								
Gastrin																													●		
Gentamicin					●					●	●	●							◗									●	●	●	
GGT					●					●	●	●																			
GLDH										❍																					
Globulin										❍	❍	❍																			
Glucagon																													▲		
Glucose	●									●	●	●																			
Glucose (Hexokinase)					●																										
Glutethimide						■													◗												
Granulocytes (GRAN)			●																												
Haloperidol																			◗												
Haptoglobin					❍					❍	❍	❍																			●
HAV-IgM				●																											
HBc-IgM				●																											
HBDH																															
HBeAg				●																											
HBsAg				●																											
hCG					●																		●					●	●		
hCG (Intact)					●																										
hCG (Total)					●																										
hCG-β Subunit										❍													●					●	●	●	

See page number	Immunology Plus (Lyophilized)	Lipids	Maternal Serum 1st Trimester	Maternal Serum II	Meter Trax	Microalbumin	Opiate	Pediatric	qUAntify Advance	qUAntify Plus	Quantitative Urine	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay (Liquid)	Specialty Immunoassay (Lyophilized)	Spinal Fluid	TDM (Liquid)	TDM (Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiqual	Urinalysis	Urine Bone Markers	Urine Chemistry	Urine Metals	Whole Blood	Whole Blood Immunosuppressant (Liquid)	Whole Blood Immunosuppressant (Lyoph.)	Whole Blood Metals
	58	20	54	54	31	22	105	21	114	114	22	59	47	111	52	52	60	101	101	53	53	20	19	18	115	56	23	111	112	100	100	111
Eosinophils (EOS)																																
Epinephrine											●																					
Epstein-Barr Virus (VCA) IgG																																
Epstein-Barr Virus (VCA) IgM																																
Erythrocyte Sedimentation Rate (ESR)																																
Erythropoietin (EPO)															●	●																
Estradiol																																
Estriol (Free)				●																												
Estriol (Total)											▲							▲	▲													
Estrogen (Total)																																
Ethanol														●								●		●								
Ethosuximide																		●	●													
Ethylene Glycol														●																		
Etiocholanolone											▲																					
Everolimus																														●		
F1 Egg White *(Gallus spp.)*																																
F2 Cow Milk *(Bos. spp.)*																																
F13 Peanut *(Arachis hypogaea)*																																
Factors II, V, VII, VIII, IX, X, XI and XII																																
Fentanyl							●																									
Ferritin																				●	●			❍								
Fibrinogen																																
Flecainide																		▲	▲													
Fluoride																												●				
Folate																						❍										
Folate (RBC)																													●			
Fructosamine																																
FSH																																
G2 Bermuda Grass *(Cynodon dactylon)*																																
G3 Cocksfoot/Orchard Grass *(Dactylis glomerata)*																																
G6 Timothy Grass *(Phleum pratense)*																																
Gastrin																																
Gentamicin																		●	●			●	●	●								
GGT																						●	●	●								
GLDH																						▲	❍									
Globulin																	●					❍	❍	❍								
Glucagon																																
Glucose					●			●	●	●	●						●					●	●	●	●		●					
Glucose (Hexokinase)																																
Glutethimide																																
Granulocytes (GRAN)																																
Haloperidol																		▲	▲													
Haptoglobin	●																						❍	❍								
HAV-IgM																																
HBc-IgM																																
HBDH																						❍										
HBeAg																																
HBsAg																																
hCG			●	●					●	●	●									●	●				●		●					
hCG (Intact)																				●												
hCG (Total)																				●	●											
hCG-β Subunit																				●	●		❍									

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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
hCG-β Subunit (Free)																															
HDL Cholesterol										●	●	●																			
HE4 (Human Epididymis Protein 4)					●																										
Helicobacter pylori IgG				●																											
Hematocrit (HCT)			●																												
Hemoglobin (HGB)	●		●														●														
Hemoglobin (Total)																	●	●													
Hemoglobin (Total Glycated)																		▲													
Hemoglobin A1																		▲													
Hemoglobin A1C																	●	●						●							
Hemoglobin A_2																									●						
Hemoglobin Concentration Distribution Width (HDW)			●																												
Hemoglobin F																		●							●						
Hemoglobin S																									●						
Hemolysis																															
Hemopexin																															▲
Hepatitis B Virus (HBV)				●																											
Hepatitis C VIrus (HCV)				●																											
HER2/neu					●																										
Heroin Metabolite						●																									
Herpes Simplex Virus Type 1 (HSV-1) IgG				●																											
Herpes Simplex Virus Type 1 (HSV-1) IgM				●																											
Herpes Simplex Virus Type 2 (HSV-2) IgG				●																											
Herpes Simplex Virus Type 2 (HSV-2) IgM				●																											
hGH																												●	●	●	
Hippuric Acid																															
HIV-1 Ag				●																											
Homocysteine		●			●																										
Homogenous Pattern													●																		
hs-CRP		●																													
Human Immunodeficiency Virus Type 1 (HIV-1)				●																											
Human Papillomavirus (HPV)				●																											
HVA																															
Hydromorphone																			◗												
Hydroxyproline (Free)																															
Hydroxyproline (Total)																															
Ibuprofen																			◗									●			
Icterus																															
Imipramine						●													◗									▲	●		
Immature Reticulocyte Fraction (IRF)			●																												
Immunoglobulin A (IgA)					❍					❍	❍	❍																❍	❍	❍	●
Immunoglobulin E (IgE)					●																							●	●	●	●
Immunoglobulin G (IgG)					❍					❍	❍	❍																❍	❍	❍	●
Immunoglobulin G Subclasses 1–4																															●
Immunoglobulin M (IgM)					❍					❍	❍	❍																❍	❍	❍	●
Immunoreactive Trypsinogen (IRT)																													▲		
Inhibin A																															
Insulin					●																							●	●	●	
Insulin Growth Factor I (IGF-I)					●																							▲	❍		
Intact PTH					●																										
Iron					●				●	●	●	●																❍	❍		
Iron (TIBC)					❍				●	❍	❍	❍																▲	❍		

58	20	54	54	31	22	105	21	114	114	22	59	47	111	52	52	60	101	101	53	53	20	19	18	115	56	23	111	112	100	100	111	See page number
Immunology Plus (Lyophilized)	Lipids	Maternal Serum 1st Trimester	Maternal Serum II	Meter Trax	Microalbumin	Opiate	Pediatric	qUAntify Advance	qUAntify Plus	Quantitative Urine	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay (Liquid)	Specialty Immunoassay (Lyophilized)	Spinal Fluid	TDM (Liquid)	TDM (Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiqual	Urinalysis	Urine Bone Markers	Urine Chemistry	Urine Metals	Whole Blood	Whole Blood Immunosuppressant (Liquid)	Whole Blood Immunosuppressant (Lyoph.)	Whole Blood Metals	
		●																														hCG-β Subunit (Free)
	●																				▲	●	●									HDL Cholesterol
																			●													HE4 (Human Epididymis Protein 4)
																																Helicobacter pylori IgG
				●																												Hematocrit (HCT)
								●	●																							Hemoglobin (HGB)
				●																												Hemoglobin (Total)
																																Hemoglobin (Total Glycated)
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																																Hemoglobin Concentration Distribution Width (HDW)
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																																Hemopexin
																																Hepatitis B Virus (HBV)
																																Hepatitis C VIrus (HCV)
																			●													HER2/neu
						●																										Heroin Metabolite
																																Herpes Simplex Virus Type 1 (HSV-1) IgG
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																																Herpes Simplex Virus Type 2 (HSV-2) IgG
																																Herpes Simplex Virus Type 2 (HSV-2) IgM
																																hGH
																											●					Hippuric Acid
																																HIV-1 Ag
																																Homocysteine
																																Homogenous Pattern
●																																hs-CRP
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																																Human Papillomavirus (HPV)
										●																						HVA
																																Hydromorphone
										▲																						Hydroxyproline (Free)
										●																						Hydroxyproline (Total)
																																Ibuprofen
																																Icterus
																	▲	●														Imipramine
																																Immature Reticulocyte Fraction (IRF)
●																●					❍	❍	❍									Immunoglobulin A (IgA)
●																																Immunoglobulin E (IgE)
●																●					❍	❍	❍									Immunoglobulin G (IgG)
																																Immunoglobulin G Subclasses 1–4
●																●					❍	❍	❍									Immunoglobulin M (IgM)
																																Immunoreactive Trypsinogen (IRT)
			●																													Inhibin A
																																Insulin
														●					●													Insulin Growth Factor I (IGF-I)
														●	●																	Intact PTH
										●											●	●	●									Iron
																					❍	❍	❍									Iron (TIBC)

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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
Iron (UIBC)					❍				●	❍	❍	❍																			
IRT																													▲		
Isopropanol (Isopropyl Alcohol)																															
Kappa Light Chain					●							❍																			●
Ketones																															
Lactate (Lactic Acid)	●				●					●	●	●																			
Lactate Dehydrogenase (LDH)					●					●	●	●																			
Lambda Light Chain					●							❍																			●
LAP Arylamidase					●					❍	❍	❍																			
Large Unstained Cells (LUC)			●																												
LDH (Total)																															
LDL Cholesterol										●	●	●																			
Lead																															
Leukocytes			●																												
Lidocaine												●							◗									●	●	●	
Lipase					●					●	●	●																			
Lipemia																															
Lipoprotein (a)					●																										●
Lithium	●				●					●	●	●							◗									●	●	●	
Lormetazepam						●																									
LSD						●																									
Luteinizing Hormone (LH)					●																		●					●	●	●	
LYMPH (W-SCC & W-SCR)			●																												
Lymphocytes (LYMPH)			●																												
Lysergic Acid Diethylamide (LSD)						●																									
M3 Mold *(Aspergillus fumigatus)*							●																								
M6 Mold *(Alternaria tenuis)*							●																								
Magnesium	●				●					●	●	●																			
Mandelic Acid																															
Manganese																															
Marijuana Metabolite						●																									
MDA						●																									
MDEA						●																									
MDMA						●																									
Mean Corpuscular Hemoglobin (MCH)			●																												
Mean Corpuscular Hemoglobin Concentration (MCHC)			●																												
Mean Corpuscular Volume (MCV)			●																												
Mean Corpuscular Volume of Gated Red Blood Cells (MVCg)			●																												
Mean Corpuscular Volume of Reticulocytes (MCVr)			●																												
Mean Hemoglobin Content of All Gated Red Cells (CHg)			●																												
Mean Hemoglobin Content of Reticulocytes (CHr)			●																												
Mean Platelet Volume (MPV)			●																												
Meperidine*																			◗												
Mercury																															
Metanephrine																															
Metanephrine (Total)																															
Methadone						●													◗												
Methadone Metabolite (EDDP)						■																									
Methamphetamine						●													◗												
Methanol (Methyl Alcohol)																															
Methaqualone						●													◗												
Methicillin Resistant Staphylococcus aureus (MRSA)				●																											

*International use only.

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Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	
																					▲	❍	❍									Iron (UIBC)
																																IRT
													●																			Isopropanol (Isopropyl Alcohol)
●																																Kappa Light Chain
								●	●															●								Ketones
																●					●	●	●									Lactate (Lactic Acid)
																●					●	●	●									Lactate Dehydrogenase (LDH)
●																																Lambda Light Chain
																					▲	❍	❍									LAP Arylamidase
																																Large Unstained Cells (LUC)
																●																LDH (Total)
	●																					●	●									LDL Cholesterol
										●																	●	●			●	Lead
								●	●															●								Leukocytes
																	●	●														Lidocaine
																					●	●	●									Lipase
																																Lipemia
	❍																															Lipoprotein (a)
																	●	●			●	●	●									Lithium
																																Lormetazepam
																																Luteinizing Hormone (LH)
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																																LYMPH (W-SCC & W-SCR)
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																																Lysergic Acid Diethylamide (LSD)
																																M3 Mold *(Aspergillus fumigatus)*
																																M6 Mold *(Alternaria tenuis)*
							●			●											●	●	●			●	●					Magnesium
																											●					Mandelic Acid
																											●					Manganese
																																Marijuana Metabolite
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																																MDEA
																																MDMA
																																Mean Corpuscular Hemoglobin (MCH)
																																Mean Corpuscular Hemoglobin Concentration (MCHC)
																																Mean Corpuscular Volume (MCV)
																																Mean Corpuscular Volume of Gated Red Blood Cells (MVCg)
																																Mean Corpuscular Volume of Reticulocytes (MCVr)
																																Mean Hemoglobin Content of All Gated Red Cells (CHg)
																																Mean Hemoglobin Content of Reticulocytes (CHr)
																																Mean Platelet Volume (MPV)
						●																										Meperidine*
										●																	●				●	Mercury
										●																						Metanephrine
										●																						Metanephrine (Total)
						●																										Methadone
																																Methadone Metabolite (EDDP)
																																Methamphetamine
													●																			Methanol (Methyl Alcohol)
																																Methaqualone
																																Methicillin Resistant Staphylococcus aureus (MRSA)

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	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
Methicillin Sensitive Staphylococcus aureus (MSSA)				●																											
Methotrexate												●							◗												
Methyprylon																			◗												
Microalbumin					●																										
Microscopics (RBC, WBC, Crystals, Casts)																															
MID			●																												
Mitochondrial													●																		
Mitotic Spindle Pattern													●																		
Mixed Cell Percent (MXD)			●																												
Monocytes (MONO)			●																												
Morphine						●													◗												
Morphine (Free)						●																									
Morphine-3-β-d-Glucuronide						●																									
Mumps Virus IgG				●																											
MXD (W-MCC & W-MCR)			●																												
Mycoplasma pneumoniae IgG				●																											
Mycoplasma pneumoniae IgM				●																											
Myoglobin		●			●																										
N-Acetylprocainamide (NAPA)												●							◗									●	●	●	
N-Telopeptide (NTx)																															
nDNA													●																		
Neisseria gonorrhoeae (NG or GC)				●																											
Netilmicin																												▲	▲		
Neuron Specific Enolase (NSE)*																															
NEUT (W-LCC & W-LCR)			●																												
NEUT X			●																												
NEUT Y			●																												
Neutrophils (NEUT)			●																												
Nickel																															
Nicotine																			◗												
Nitrite																															
Non-treponemal Antibodies (Syphilitic Reagin)				●																											
Norclomipramine														●					◗												
Nordiazepam						●													◗												
Nordoxepin																			◗												
Norepinephrine																					●										
Normetanephrine																															
Norpropoxyphene						●																									
Nortriptyline						●													◗									●	●		
NT-proBNP		●			●																										
Nucleated Red Blood Cells (NRBC)			●																												
Nucleated Red Blood Cells/100 WBC (NRBC/WBC%)			●																												
Nucleolar Pattern													●																		
Oligoclonal Banding (IgG)																															
Opiates						●																									
Osmolality					●					❍	●	●																			
Osteocalcin					●																										
Oxazepam						●													◗												
Oxycodone						●																									
Oxygen Content	●																														
PAP					●					▲	▲																	●	●	●	
PAPP-A																															

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58	20	54	54	31	22	105	21	114	114	22	59	47	111	52	52	60	101	101	53	53	20	19	18	115	56	23	111	112	100	100	111	See page number
Immunology Plus (Lyophilized)	Lipids	Maternal Serum 1st Trimester	Maternal Serum II	Meter Trax	Microalbumin	Opiate	Pediatric	qUAntify Advance	qUAntify Plus	Quantitative Urine	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay (Liquid)	Specialty Immunoassay (Lyophilized)	Spinal Fluid	TDM (Liquid)	TDM (Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiqual	Urinalysis	Urine Bone Markers	Urine Chemistry	Urine Metals	Whole Blood	Whole Blood Immunosuppressant (Liquid)	Whole Blood Immunosuppressant (Lyoph.)	Whole Blood Metals	
																																Methicillin Sensitive Staphylococcus aureus (MSSA)
																	●	●														Methotrexate
																																Methyprylon
					●			●	●	●														●		●						Microalbumin
									●															●								Microscopics (RBC, WBC, Crystals, Casts)
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																																Myoglobin
																	●	●														N-Acetylprocainamide (NAPA)
																									●							N-Telopeptide (NTx)
																																nDNA
																																Neisseria gonorrhoeae (NG or GC)
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																				●												Neuron Specific Enolase (NSE)*
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																																NEUT X
																																NEUT Y
																																Neutrophils (NEUT)
																											●					Nickel
																																Nicotine
								●	●															●								Nitrite
																																Non-treponemal Antibodies (Syphilitic Reagin)
																																Norclomipramine
																																Nordiazepam
																																Nordoxepin
										●																						Norepinephrine
										●																						Normetanephrine
																																Norpropoxyphene
																	▲	●														Nortriptyline
																																NT-proBNP
																																Nucleated Red Blood Cells (NRBC)
																																Nucleated Red Blood Cells/100 WBC (NRBC/WBC%)
																																Nucleolar Pattern
																●																Oligoclonal Banding (IgG)
																																Opiates
										●											❍	❍	●	●		●						Osmolality
														●																		Osteocalcin
																																Oxazepam
						●																										Oxycodone
																																Oxygen Content
																			●	●	▲	●	▲									PAP
		●																														PAPP-A

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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
pCO_2	●																														
PCT			✖																												
PDW			✖																												
Pentachlorophenol																															
Pentobarbital						●																									
pH	●					◆																									
Phencyclidine (PCP)						●													◗												
Phenobarbital					●	●				●	●	●							◗									●	●	●	
Phenol																															
Phenothiazines																			◗												
Phenylalanine																															
Phenylglyoxylic Acid																															
Phenytoin					●					●	●	●							◗									●	●	●	
Phenytoin (Free)																												▲	▲	●	
Phospholipids					●						●	●																			
Phosphorus					●					●	●	●																			
Plasminogen																										●					
Platelecrit (PCT)			●																												
Platelet Distribution Width (PDW)			✖																												
Platelet Volume Distribution Width (PDW)			✖																												
Platelets (PLT)			●																												
Platelets Impedance Method (PLTi)			●																												
Platelets, Optical Count (PLTo)			●																												
pO_2	●																														
Porphyrins (Total)																															
Potassium	●				●					●	●	●																			
Prealbumin					❍				❍		❍	❍																			●
Pregnancy (hCG)																															
Pregnancy (Qualitative)																															
Pregnanetriol																															
Primidone																			◗									●	●	●	
Procainamide												●							◗									●	●	●	
Procalcitonin																															
Progesterone					●																		●					●	●	●	
ProGRP*					●																										
Prolactin					●																							●	●	●	
Properdin Factor B																															●
Propoxyphene						●													◗												
Propranolol																			◗									●	▲		
Prostatic Acid Phosphatase (PAP)										▲	●																	●	●	●	
Protein (Total)					●					●	●	●																			●
Protein (Total Urine)					●																										
Protein C (Functional)																										●					
Protein Electrophoresis										❍		❍																			
Protein S (Functional)																										●					
Protein Serum (Total)					●																										
Protein-to-Creatinine Ratio																															
Prothrombin Time (PT)															●											●					
PSA (Free)					●																							●	●	●	
PSA (Total)					●					❍																		●	●	●	
Pseudocholinesterase																															
PTH (Intact)																													▲		

*International use only.

Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	See page number
																																pCO_2
																																PCT
																																PDW
																											●					Pentachlorophenol
																																Pentobarbital
								●	●	●														●		●						pH
																																Phencyclidine (PCP)
																	●	●			●	●	●									Phenobarbital
																											●					Phenol
																																Phenothiazines
							●																									Phenylalanine
																											●					Phenylglyoxylic Acid
																	●	●			●	●	●									Phenytoin
																	●	●														Phenytoin (Free)
																					❍		●									Phospholipids
										●											●	●	●			●						Phosphorus
																																Plasminogen
																																Platelecrit (PCT)
																																Platelet Distribution Width (PDW)
																																Platelet Volume Distribution Width (PDW)
																																Platelets (PLT)
																																Platelets Impedance Method (PLTi)
																																Platelets, Optical Count (PLTo)
																																pO_2
										●																						Porphyrins (Total)
							●			●											●	●	●			●						Potassium
●																●							❍									Prealbumin
								●	●	●														●		●						Pregnancy (hCG)
										●																●						Pregnancy (Qualitative)
										▲																						Pregnanetriol
																	●	●														Primidone
																	●	●														Procainamide
															●																	Procalcitonin
																																Progesterone
																			●													ProGRP*
																			●	●												Prolactin
																																Properdin Factor B
																																Propoxyphene
																	●	●														Propranolol
																			●	●	▲	●	▲									Prostatic Acid Phosphatase (PAP)
								●	●	●						●					●	●	●	●		●						Protein (Total)
																																PRotein (Total Urine)
																																Protein C (Functional)
																●					❍	❍	❍									Protein Electrophoresis
																																Protein S (Functional)
																																Protein Serum (Total)
								●	●															●								Protein-to-Creatinine Ratio
																																Prothrombin Time (PT)
																			●	●												PSA (Free)
																			●	●												PSA (Total)
																					❍											Pseudocholinesterase
																																PTH (Intact)

● Analyte present
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See page number	140	140	141	146	142	104	60	54	55	19	18	84	61	110	26	27	30	30	110	59	55	21	54	30	31	26	55	50	51	85	58
	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
PTH-MM																												▲			
Pyridinium Crosslinks (DPD & PYD)																															
Pyridinoline (PYD)																															
Pyrilamine																			◗												
Quinidine												●							◗									●	▲	●	
Quinine																			◗												
RDW-SD			●																												
Reagin				●																											
Red Blood Cells (RBC)			●																												
Red Blood Cells, Optical (RBCo)			●																												
Red Cell Distribution Width (RDW)			●																												
Red Cell Distribution Width-CV (RDW-CV)			●																												
Red Cell Distribution Width-SD (RDW-SD)			●																												
Red Cell Folate																															
Renin																											●				
Reticulocyte (Retic)			●																												
Retinol Binding Protein (RBP)																															●
Rheumatoid Factor					●																										●
RNP													●																		
Rubella Virus IgG				●																											
Rubella Virus IgM				●																											
Rubeola Virus (Measles) IgG				●																											
S-100*																															
Salicylate					●					●	●	●							◗									●	●	●	
SCC*					●																										
Scl-70													●																		
Secobarbital						●													◗												
Sedimentation Rate (ESR)																															
Selenium																															
Serotonin																															
SHBG (Sex Hormone Binding Globulin)					●																							❍	▲	●	
Sirolimus																															
Sm													●																		
Smooth Muscle													●																		
Sodium	●				●					●	●	●																			
Soluble Transferrin Receptor (sTfR)																															▲
Somatomedin-C																												▲	❍		
Sorratomedin C					●																										
Specific Gravity						◆																									
Speckled Pattern													●																		
Spun Hematocrit (Spun HCT)			●																												
SS-A													●																		
SS-B													●																		
Syphilis RPR				●																											
T3 Birch (Betula)							●																								
T3 (Free)					●					❍																		●	●	●	
T3 (Total)					●					●	●	●																●	●	●	
T3 Uptake/T-Uptake					●					●	●	●																●	●	●	
T4 (Free)					●					❍	●	●																●	●	●	
T4 (Total)					●					●	●	●																●	●	●	
T-Uptake					●																										
Tacrolimus (FK 506)																															

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Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	See page number
																																PTH-MM
																									●							Pyridinium Crosslinks (DPD & PYD)
																									▲							Pyridinoline (PYD)
																																Pyrilamine
																	●	●														Quinidine
																																Quinine
																																RDW-SD
																																Reagin
									●															●							Red Blood Cells (RBC)
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																																Red Cell Distribution Width-CV (RDW-CV)
																																Red Cell Distribution Width-SD (RDW-SD)
																												●				Red Cell Folate
																																Renin
																																Reticulocyte (Retic)
●																																Retinol Binding Protein (RBP)
●											●																					Rheumatoid Factor
																																RNP
																																Rubella Virus IgG
																																Rubella Virus IgM
																																Rubeola Virus (Measles) IgG
																				●												S-100*
																	●	●			●	●	●									Salicylate
																			●													SCC*
																																Scl-70
																																Secobarbital
												●																				Sedimentation Rate (ESR)
																											●					Selenium
																												▲				Serotonin
															●																	SHBG (Sex Hormone Binding Globulin)
																													●	●		Sirolimus
																																Sm
																																Smooth Muscle
							●			●						●					●	●	●			●						Sodium
																																Soluble Transferrin Receptor (sTfR)
														●																		Somatomedin-C
																																Sorratomedin C
								●	●	●														●		●						Specific Gravity
																																Speckled Pattern
																																Spun Hematocrit (Spun HCT)
																																SS-A
																																SS-B
																																Syphilis RPR
																																T3 Birch *(Betula)*
																	●				▲	❍										T3 (Free)
																	●	●			●	●	●									T3 (Total)
																	●	●			●	●	●									T3 Uptake/T-Uptake
																	▲	●			▲	❍	●									T4 (Free)
																	●	●			●	●	●									T4 (Total)
																																T-Uptake
																													●	●		Tacrolimus (FK 506)

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	See Blood Gas Chart	See Cardiac Assessment Chart	See Hematology Chart	See Infectious Disease/Molecular Chart	See Inteliq Chart	See Urine Toxicology Charts	Allergen sIgE	AMH	Anemia	Assayed Chemistry	Assayed Multiqual	Assayed Multiqual Premium	Autoimmune	Benzo/TCA–Set B	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hemoglobin A1C Linearity Set	Hemoglobin A_2	Hemostasis	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	Immunoassay Premium	Immunology (Liquid)
TBG										❑																		●	❍	●	
Testosterone					●																		●					●	●	●	
Testosterone (Free)																												●	●		
Thallium																															
THC Metabolite						●																									
Theophylline					●					●	●	●							◗									●	●	●	
Thrombin Time (TT)															●											●					
Thyroglobulin (Tg)																												▲	❍		
Tobramycin					●					●	●	●							◗									●	●	●	
Total Red Blood Cell Counts in Retic Channel (Retic RBC)			●																												
Toxoplasma gondii IgG				●																											
Toxoplasma gondii IgM				●																											
Tramadol*																															
Transferrin					●				●	❍	❍	❍																			●
Trazodone														●					◗												
Treponema pallidum (Syphilis) IgG				●																											
Treponema pallidum (Syphilis) IgM				●																											
Trichloroacetic Acid																															
Tricyclic Antidepressants						●								●																	
Tricyclic Antidepressants (TCA) Screen																												●	▲	●	
Triglycerides					●					●	●	●																			
Troponin I		●																													
Troponin I Ultra					●																										
Troponin T		●																													
Trypanosoma cruzi (T. cruzi)				●																											
TSH					●				●	●	●	●																●	●	●	
Unconjugated Estriol (UE_3)																															
Urea					●					●	●	●																			
Urea Nitrogen					●					●	●	●																			
Uric Acid					●					●	●	●																			
Urobilinogen																															
Uroporphyrin																															
Valproic Acid					●					●	●	●							◗									●	●	●	
Valproic Acid (Free)																												▲	▲	●	
Vancomycin					●					●		●							◗									●	●	●	
Vancomycin Resistant Enterococci (VRE or vanR)				●																											
Varicella Zoster Virus (VZV) IgG				●																											
Vitamin B_{12}					●				●	❍	❍	❍																●	●	●	
VMA																															
W6 Mugwort *(Artemesia vulgaris)*							●																								
West Nile Virus IgG				●																											
West Nile Virus IgM				●																											
White Blood Cells (WBC)			●																												
White Blood Cells Counts Measured in Perox Channel (WBCP)			●																												
Zinc					●					❍	●	●																			

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Immunology Plus (Lyophilized) 58	Lipids 20	Maternal Serum 1st Trimester 54	Maternal Serum II 54	Meter Trax 31	Microalbumin 22	Opiate 105	Pediatric 21	qUAntify Advance 114	qUAntify Plus 114	Quantitative Urine 22	Rheumatoid Factor 59	Sedimentation Rate 47	Serum Volatiles 111	Specialty Immunoassay (Liquid) 52	Specialty Immunoassay (Lyophilized) 52	Spinal Fluid 60	TDM (Liquid) 101	TDM (Lyophilized) 101	Tumor Marker (Liquid) 53	Tumor Marker Plus (Lyophilized) 53	Unassayed Chemistry (Liquid) 20	Unassayed Chemistry (Lyophilized) 19	Unassayed Multiqual 18	Urinalysis 115	Urine Bone Markers 56	Urine Chemistry 23	Urine Metals 111	Whole Blood 112	Whole Blood Immunosuppressant (Liquid) 100	Whole Blood Immunosuppressant (Lyoph.) 100	Whole Blood Metals 111	See page number
																						❍										TBG
																																Testosterone
																																Testosterone (Free)
																											●				●	Thallium
																																THC Metabolite
							●										●	●			●	●	●									Theophylline
																																Thrombin Time (TT)
																			●	●												Thyroglobulin (Tg)
																	●	●			●	●	●									Tobramycin
																																Total Red Blood Cell Counts in Retic Channel (Retic RBC)
																																Toxoplasma gondii IgG
																																Toxoplasma gondii IgM
						●																										Tramadol*
●																					❍	❍	❍									Transferrin
																																Trazodone
																																Treponema pallidum (Syphilis) IgG
																																Treponema pallidum (Syphilis) IgM
																											●					Trichloroacetic Acid
																																Tricyclic Antidepressants
																	●	●														Tricyclic Antidepressants (TCA) Screen
	●																				●	●	●									Triglycerides
																																Troponin I
																																Troponin I Ultra
																																Troponin T
																																Trypanosoma cruzi (T. cruzi)
																	●	●			●	●	●									TSH
																																Unconjugated Estriol (UE_3)
										●												●	●			●						Urea
										●											●	●	●			●						Urea Nitrogen
										●											●	●	●			●						Uric Acid
								●	●															●								Urobilinogen
										●																						Uroporphyrin
																	●	●			●	●	●									Valproic Acid
																	●	●														Valproic Acid (Free)
																	●	●			●	●										Vancomycin
																																Vancomycin Resistant Enterococci (VRE or vanR)
																																Varicella Zoster Virus (VZV) IgG
																					❍	❍	❍									Vitamin B_{12}
										●																						VMA
																																W6 Mugwort *(Artemesia vulgaris)*
																																West Nile Virus IgG
																																West Nile Virus IgM
									●															●								White Blood Cells (WBC)
																																White Blood Cells Counts Measured in Perox Channel (WBCP)
										▲											▲	❍	●				●					Zinc

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Blood Gas Controls

See page number	10	10	11
● Analyte present	**Blood Gas**	**Blood Gas Plus E**	**Blood Gas Plus EGL**
Chloride		●	●
Calcium (Ionized)		●	●
Glucose			●
Lactate (Lactic Acid)			●
Lithium			●
Magnesium			●
pCO_2	●	●	●
pH	●	●	●
pO_2	●	●	●
Potassium		●	●
Sodium		●	●

Cardiac Assessment Controls

See page number	14	15	15	14	15	16
● Analyte present ■ Analyte present and no claims are made regarding performance or stability	**Cardiac Markers Plus LT**	**Cardiac Markers Plus**	**Cardiac Markers LT**	**Cardiac Troponins**	**CK/LD Isoenzyme**	**Homocysteine**
Albumin					●	
BNP	●	●				
CK (Total)	●	●			●	
CK Electrophoresis					●	
CK-MB Isoenzyme	●	●	●		●	
CRP	●	●				
Digitoxin	●	●	●			
Globulin					●	
Homocysteine	■	■	■			●
LD Electrophoresis					●	
LD-1 Isoenzyme					●	
LDH					●	
Myoglobin	●	●	●			
NT-proBNP	●	●	●			
Protein (Total)					●	
Protein Electrophoresis					●	
Troponin I	●	●	■	●		
Troponin T	●	●	●	●		

Hematology Controls

● Analyte present
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▲ No claim is made for expected value or stability

See page number	42	43	44	45	46	46	42	42	43	44	45	47
	Hematology (A)	Hematology (C)	Hematology (S)	Hematology (X)	Hematology–16	Hematology-16T	Reticulocyte (A)	Reticulocyte (A-I)	Reticulocyte (C)	Reticulocyte (S)	Reticulocyte (X)	Sedimentation Rate
Basophils (BASO or BA)	●	●	●	●								
Cellular Hemoglobin Concentration Mean (CHCM)			●									
Cellular Hemoglobin Concentration Mean of Gated Red Blood Cells (CHCMg)										●		
Cellular Hemoglobin Concentration Mean of Reticulocytes (CHCMr)										●		
Eosinophils (EOS or EO)	●	●	●	●								
Erythrocyte Sedimentation Rate (ESR)												●
Granulocytes (GRAN)	●				●	●						
Hematocrit (HCT)	●	●	●	●	●	●						
Hemoglobin (HGB)	●	●	●	●	●	●						
Hemoglobin Concentration Distribution Width (HDW)			●									
Immature Reticulocyte Fraction (IRF)							●	●	●		●	
Large Unstained Cells (LUC)			●									
LYMPH (W-SCC & W-SCR)						●						
Lymphocytes (LYMPH or LY)	●	●	●	●	●	●						
Mean Corpuscular Hemoglobin (MCH)	●	●	●	●	●	●						
Mean Corpuscular Hemoglobin Concentration (MCHC)	●	●	●	●	●	●						
Mean Corpuscular Volume (MCV)	●	●	●	●	●	●						
Mean Corpuscular Volume of Gated Red Blood Cells (MCVg)										●		
Mean Corpuscular Volume of Reticulocytes (MCVr)										●		
Mean Hemoglobin Content of All Gated Red Cells (CHg)										●		
Mean Hemoglobin Content of Reticulocytes (CHr)										●		
Mean Platelet Volume (MPV)	●	●	●	●	●	●						
Mean Reticulocyte Volume (MRV)									●			
MID	●				●	●						
Monocytes (MONO or MO)	●	●	●	●	●							
MXD (W-MCC & W-MCR)						●						
NEUT (W-LCC & W-LCR)						●						
Neutrophils (NEUT or NE)	●	●	●	●								
NEUT X			●									
NEUT Y			●									
NRBC/100 WBC (NRBC percent of WBC Count)	●											
Nucleated Optical Count (NOC)	●											
Nucleated Red Blood Cells (NRBC)	●			▲								
Platelet Distribution Width (PDW)	✖	✖										
Plateletcrit (PCT)	✖	✖										
Platelets (PLT)	●	●	●	●	●	●						
Platelets Impedance Method (PLTi)	●											
Platelets, Optical Count (PLT-o)				▲								
Red Blood Cell Distribution Width (RDW)	●	●	●		●	●						
Red Blood Cell Distribution Width-CV (RDW-CV)				●		●						
Red Blood Cell Distribution Width-SD (RDW-SD)		●		●		●						
Red Blood Cells (RBC)	●	●	●	●	●	●		●	●		●	
Red Blood Cells, Optical (RBCo)	●											
Reticulocyte (Retic)							●	●	●	●	●	
Spun HCT (Spun Hematocrit)						●						
Total Red Blood Cell Counts in Retic Channel (Retic RBC)										●		
White Blood Cells (WBC)	●	●	●	●	●	●						
White Blood Cells Counts Measured in Perox Channel (WBCP Perox)			●									
White Impedance Count (WIC)	●											
White Optical Count	●											

InteliQ

● Analyte available
❍ Analyte present in endogenous levels

Test Menu	Analytes	InteliQ Assayed Multiqual (74)	InteliQ Ethanol/Ammonia (75)	InteliQ Homocysteine (75)	InteliQ Specialty Immunoassay (76)	InteliQ Tumor Marker (76)	Liquichek Cardiac Markers Plus LT (77)	Liquichek Immunoasssay Plus (77)	Liquichek Immunology (78)	Liquichek Urine Chemistry (78)
Anemia	Erythropoietin (EPO)				●					
	Ferritin	❍				●		●	●	
	Folate							●		
	Vitamin B_{12}	❍						●		
Bone Metabolism	25-Hydroxy Vitamin D				●					
	Intact PTH				●					
	Osteocalcin				●					
Cancer/Oncology	α-Fetoprotein (AFP)					●				
	CA 15-3					●				
	CA 19-9					●				
	CA 27.29					●				
	CA 72-4*					●				
	CA 125					●				
	Carcinoembryonic Antigen (CEA)					●				
	Cyfra 21-1*					●				
	HE4					●				
	HER-2/neu					●				
	PRoGRP*					●				
	PSA (Free)					●				
	PSA (Total)					●		●		
	SCC*					●				
Cardiac	BNP						●			
	CK-MB Isoenzyme						●	●		
	Myoglobin						●			
	NT-proBNP						●			
	Troponin I Ultra						●			
Diabetes	C-Peptide				●					
	Insulin							●		
Fertility/Pregnancy	β-hCG					●				
	DHEA-S							●		
	Estradiol							●		
	FSH							●		
	hCG					●		●		
	LH							●		
	Progesterone							●		
	Prolactin					●		●		
	SHBG (Sex Hormone Binding Globulin)							❍		
	Testosterone							●		

*International use only.

InteliQ

● Analyte available
❍ Analyte present in endogenous levels

Test Menu	Analytes	InteliQ Assayed Multiqual (74)	InteliQ Ethanol/Ammonia (75)	InteliQ Homocysteine (75)	InteliQ Specialty Immunoassay (76)	InteliQ Tumor Marker (76)	Liquichek Cardiac Markers Plus LT (77)	Liquichek Immunoasssay Plus (77)	Liquichek Immunology (78)	Liquichek Urine Chemistry (78)
General Chemistry	α-1-Antitrypsin	❍								
	α-1-Globulin	❍								
	α-2-Globulin	❍								
	β-Globulin	❍								
	γ-Globulin	❍								
	γ-Glutamyltransferase (GGT)	●								
	Acid Phosphatase (Total)	●								
	Albumin	●								
	Albumin (BCG)								●	
	Albumin (BCP)								●	
	Albumin-to-Globulin Ratio	❍								
	Alkaline Phosphatase	●								
	ALT/SGPT	●								
	Ammonia		●							
	Amylase	●								●
	Amylase (Pancreatic)	●								
	AST/SGOT	●								
	Bilirubin (Direct)	●								
	Bilirubin (Neonatal)	●								
	Bilirubin (Total)	●								
	Calcium	●								●
	Calcium (CPC)									●
	Calcium (Ionized)	●								
	Carbon Dioxide (CO_2)	●								
	Chloride	●								●
	Cholesterol (HDL)	●								
	Cholesterol (LDL)	●								
	Cholesterol (Total)	●								
	Cholinesterase	❍								
	Copper	❍								
	Creatine Kinase (CK)	●					●			
	Creatinine	●								●
	Glucose (Hexokinase)	●								●
	Iron	●						❍		
	Iron (TIBC)	❍								
	Iron (UIBC)	❍								
	Lactate (Lactic Acid)	●								
	Lactate Dehydrogenase (LDH)	●								
	LAP Arylamidase	●								
	Lipase	●								
	Magnesium	●								●
	Microalbumin									●
	Osmolality	●								●
	Phospholipids	●								
	Phosphorus	●								●
	Potassium	●								●
	Protein (Total)	●							●	
	Protein (Total Urine)									●
	Sodium	●								●
	Triglycerides	●								
	Urea	●								●
	Urea Nitrogen (BUN)	●								●
	Uric Acid	●								●

InteliQ

● Analyte available
❍ Analyte present in endogenous levels

Test Menu	Analytes	InteliQ Assayed Multiqual (74)	InteliQ Ethanol/Ammonia (75)	InteliQ Homocysteine (75)	InteliQ Specialty Immunoassay (76)	InteliQ Tumor Marker (76)	Liquichek Cardiac Markers Plus LT (77)	Liquichek Immunoasssay Plus (77)	Liquichek Immunology (78)	Liquichek Urine Chemistry (78)
Growth	Insulin Growth Factor I (IGF-I)/Sorratomedin C				●	●				
Inflammation	Immunoglubulin E (IgE)							●	●	
Metabolic	Cortisol	●						●		●
	Homocysteine			●						
Reproductive Endocrinolgy	hCG					●				●
	hCG (Intact)					●				
	hCG (Total)					●				
	Prolactin					●				
Therapeutic Drug Monitoring	Amikacin	●								
	Carbamazepine	●						●		
	Digitoxin						●			
	Digoxin	●						●		
	Gentamicin	●								
	Lithium	●						●		
	Phenobarbital	●						●		
	Phenytoin	●						●		
	Theophylline	●						●		
	Tobramycin	●						●		
	Valproic Acid	●						●		
	Vancomycin							●		
Thyroid	Anti-Thyroglobulin (Anti-Tg)				●					
	Anti-Thyroperoxidase (Anti-TPO)				●					
	T3 (Free)							●		
	T3 (Total)	●						●		
	T3 Uptake/T Uptake	●								
	T4 (Free)	●						●		
	T4 (Total)	●						●		
	Thyroid Stimulating Hormone (TSH)	●						●		
	T-Uptake							●		
Toxicology: DOA	Acetaminophen	●						●		
	Ethanol	●	●							
	Salicylate	●								
	Zinc	●								

InteliQ

● Analyte available
❍ Analyte present in endogenous levels

Test Menu	Analytes	InteliQ Assayed Multiqual (74)	InteliQ Ethanol/Ammonia (75)	InteliQ Homocysteine (75)	InteliQ Specialty Immunoassay (76)	InteliQ Tumor Marker (76)	Liquichek Cardiac Markers Plus LT (77)	Liquichek Immunoasssay Plus (77)	Liquichek Immunology (78)	Liquichek Urine Chemistry (78)
Tumor Marker	α-Fetoprotein (AFP)							●		
	CEA							●		
	PAP					●				
Specific Proteins	α-1-Acid Glycoprotein (AAG)								●	
	α-1-Antitrypsin (AAT)	❍							●	
	Antistreptolysin O (ASO)								●	
	Apolipoprotein A-1	❍							●	
	Apolipoprotein B	❍							●	
	β-2-Microglobulin					●			●	
	Ceruloplasmin	❍							●	
	Complement C3	❍							●	
	Complement C4	❍							●	
	CRP						●		●	
	Cystatin C								❍	
	Haptoglobin	❍							●	
	Immunoglobulin A (IgA)	❍						❍	●	
	Immunoglobulin G (IgG)	❍						❍	●	
	Immunoglobulin M (IgM)	❍						❍	●	
	Kappa Light Chain (FLC)								●	
	Lambda Light Chain (FLC)								●	
	Lipoprotein (a)								●	
	Prealbumin	❍							●	
	Protein Serum (Total)	●							●	
	Rheumatoid Factor								●	
	Transferrin	❍							●	

Molecular & Infectious Disease Controls

● Analyte present
■ Negative for analyte

	Molecular									Infectious Disease														
See page number	80	81	81	82	82	80	81	81	82	64	64	64	65	69	69	71	71	72	71	67	67	67	66	66
	Positive Controls					Negative Controls				Positive Controls														
	Amplichek I	Amplichek II	Amplichek STI	AmpliPROBE CT/GC	AmpliTrol CT/GC	Amplichek I	Amplichek II	Amplichek STI	AmpliClear	Assayed VIROTROL I-C	Assayed VIROTROL I-E	Assayed VIROTROL I-F	Assayed VIROTROL II-B	Liq. ToRCH Plus	Liq. ToRCH Plus IgM	PneumoTrol	PylariTrol	VIROTROL Chagas	VIROTROL EBV	VIROTROL HAV-IgM	VIROTROL HBc-IgM	VIROTROL HBeAg	VIROTROL HIV-1 Ag	VIROTROL HIV-1 gO
Anti-Cytomegalovirus (Anti-CMV)										●	●	●												
Anti-HAV													●											
Anti-HBc										●	●	●												
Anti-HBe																								
Anti-HBs													●											
Anti-HCV										●	●	●												
Anti-HIV-1										●	●	●												
Anti HIV-1/2																								
Anti-HIV-1 gO																								●
Anti-HIV-2																								
Anti-HTLV-I										●	●	●												
Anti-HTLV-I/II																								
Anti-HTLV-II																								
Anti-*Treponema pallidum* (Syphilis)																								
Borrelia burgdorferi IgG																								
Chlamydia trachomatis			●	●	●			■	■															
Chlamydia trachomatis IgG																●								
Clostridium difficile (C. diff.)		●					■																	
Cytomegalovirus (CMV) IgG														●										
Cytomegalovirus (CMV) IgM															●									
EBNA IgG																			●					
EBV EA-D IgG																								
Epstein-Barr Virus (VCA) IgG														●					●					
Epstein-Barr Virus (VCA) IgM																			●					
HAV-IgM																				●				
HBc-IgM																					●			
HBeAg																						●		
HBsAg										●	●	●												
Helicobacter pylori IgG														●			●							
Hepatitis B Virus (HBV)	●					■																		
Hepatitis C Virus (HCV)	●					■																		
Herpes Simplex Virus Type 1 (HSV-1) IgG														●										
Herpes Simplex Virus Type 1 (HSV-1) IgM															●									
Herpes Simplex Virus Type 2 (HSV-2) IgG														●										
Herpes Simplex Virus Type 2 (HSV-2) IgM															●									
HIV-1 Ag																							●	
Human Immunodeficiency Virus Type 1 (HIV-1)	●					■																		
Human Papillomavirus (HPV)			●					■																
Measles Virus (Rubeola) IgG																								
Methicillin Resistant Staphylococcus aureus (MRSA)		●					■																	
Methicillin Sensitive Staphylococcus aureus (MSSA)		●					■																	
Mumps Virus IgG																								
Mycoplasma pneumoniae IgG																●								
Mycoplasma pneumoniae IgM																●								
Neisseria gonorrhoeae (NG or GC)			●	●	●			■	■															
Non-treponemal Antibodies (Syphilitic Reagin)																								
Rubella Virus IgG														●										
Rubella Virus IgM															●									
Syphilis RPR														●										
Toxoplasma gondii IgG														●										
Toxoplasma gondii IgM															●									
Treponema pallidum (Syphilis) IgG														●										
Treponema pallidum (Syphilis) IgM																								
Trypanosoma cruzi (T. cruzi)																		●						
Vancomycin Resistant Enterococci (VRE or vanR)		●					■																	
Varicella Zoster Virus (VZV) IgG														●										
West Nile Virus IgG & West Nile Virus IgM																								

Molecular & Infectious Disease Controls

● Analyte present
■ Negative for analyte

Infectious Disease																		
66	64	65	65	65	72	70	66	70	70	68	68	72	69	69	67	71	70	68
Positive Controls													Negative Controls					
VIROTROL HIV-2	VIROTROL I	VIROTROL II	VIROTROL III	VIROTROL IV	VIROTROL Lyme	VIROTROL MuMZ	VIROTROL PLUS-R	VIROTROL RPR Panel	VIROTROL Syphilis LR-A	VIROTROL ToRCH	VIROTROL ToRCH-M	VIROTROL WNV	Liq. ToRCH Plus	Liq.ToRCH Plus IgM	VIROCLEAR	VIROCLEAR EBV	VIROCLEAR MuMZ	VIROCLEAR ToRCH
	●						●								■			
		●	●												■			
	●						●								■			
				●											■			
		●													■			
	●						●								■			
	●														■			
							●											
●															■			
	●														■			
							●											
															■			
															■			
					●													
										●	●		■					■
											●			■				■
																■		
																■		
													■			■		
																■		
			●												■			
			●												■			
															■			
	●						●								■			
													■					
										●	●		■					■
														■				■
										●	●		■					■
														■				■
															■			
						●											■	
						●											■	
								●							■			
										●	●		■					■
											●			■				■
								●					■					
							●			●	●		■					■
											●			■				■
							●		●				■		■			
							●		●						■			
												●						

See page number

Anti-Cytomegalovirus (Anti-CMV)
Anti-HAV
Anti-HBc
Anti-HBe
Anti-HBs
Anti-HCV
Anti-HIV-1
Anti HIV-1/2
Anti-HIV-1 gO
Anti-HIV-2
Anti-HTLV-I
Anti-HTLV-I/II
Anti-HTLV-II
Anti-*Treponema pallidum* (Syphilis)
Borrelia burgdorferi IgG
Chlamydia trachomatis
Chlamydia trachomatis IgG
Clostridium difficile (C. diff.)
Cytomegalovirus (CMV) IgG
Cytomegalovirus (CMV) IgM
EBNA IgG
EBV EA-D IgG
Epstein-Barr Virus (VCA) IgG
Epstein-Barr Virus (VCA) IgM
HAV-IgM
HBc-IgM
HBeAg
HBsAg
Helicobacter pylori IgG
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes Simplex Virus Type 1 (HSV-1) IgG
Herpes Simplex Virus Type 1 (HSV-1) IgM
Herpes Simplex Virus Type 2 (HSV-2) IgG
Herpes Simplex Virus Type 2 (HSV-2) IgM
HIV-1 Ag
Human Immunodeficiency Virus Type 1 (HIV-1)
Human Papillomavirus (HPV)
Measles Virus (Rubeola) IgG
Methicillin Resistant Staphylococcus aureus (MRSA)
Methicillin Sensitive Staphylococcus aureus (MSSA)
Mumps Virus IgG
Mycoplasma pneumoniae IgG
Mycoplasma pneumoniae IgM
Neisseria gonorrhoeae (NG or GC)
Non-treponemal Antibodies (Syphilitic Reagin)
Rubella Virus IgG
Rubella Virus IgM
Syphilis RPR
Toxoplasma gondii IgG
Toxoplasma gondii IgM
Treponema pallidum (Syphilis) IgG
Treponema pallidum (Syphilis) IgM
Trypanosoma cruzi (T. cruzi)
Vancomycin Resistant Enterococci (VRE or vanR)
Varicella Zoster Virus (VZV) IgG
West Nile Virus IgG & West Nile Virus IgM

QC Products in Dimension Vista Vials

See page number	94		95		96		97		98	
	Assayed Multiqual	Cardiac Markers Plus LT	Diabetes	Ethanol/Ammonia	Immunoassay Plus	Immunology (Liquid)	Pediatric	Spinal Fluid	Tumor Marker	Urine Chemistry
α-1-Acid Glycoprotein						●				
α-1-Antitrypsin	❍					●				
α-2-Macroglobulin						●				
β-2-Microglobulin						●			●	
Acetaminophen	●				●					
Albumin	●					●		●		
Alcohol (Ethanol)	●			●						
Alkaline Phosphatase (ALP)	●									
Alphafetoprotein (AFP)					●				●	
ALT/SGPT	●									
Amikacin					●					
Ammonia				●						
Amylase	●									●
Antistreptolysin O (ASO)						●				
Apolipoprotein A-1	❍					●				
Apolipoprotein B	❍					●				
AST/SGOT	●									
Bilirubin (Direct)	●						●			
Bilirubin (Total)	●						●			
C1 Inhibitor						●				
CA 15-3									●	
CA 19-9									●	
CA 125									●	
Caffeine					●		●			
Calcium							●			●
Calcium (Total)	●									
Carbamazepine	●				●					
CEA					●				●	
Ceruloplasmin	❍					●				
Chloride	●						●	●		●
Cholesterol (HDL)	●									
Cholesterol (LDL)	●									
Cholesterol (Total)	●									
CK (Total)		●								
CK-MB Isoenzyme		●			●					
CO_2	●									
Complement C3	❍					●				
Complement C4	❍					●				
Creatine Kinase (CK)	●									
Creatinine	●									●
CRP		●				●				
Cystatin C						●				
Digitoxin		●								
Digoxin	●				●					
Estradiol					●					
Ethanol	●			●						
Ferritin	❍				●	●			●	
Folate					●					
FSH					●					
Gentamicin	●				●					
GGT	●									
Glucose	●						●	●		●
Haptoglobin	❍					●				
hCG									●	

QC Products in Dimension Vista Vials

See page number	94		95		96		97		98	
	Assayed Multiqual	Cardiac Markers Plus LT	Diabetes	Ethanol/Ammonia	Immunoassay Plus	Immunology (Liquid)	Pediatric	Spinal Fluid	Tumor Marker	Urine Chemistry
hCG-β Subunit					●					
Hemoglobin A1C			●							
Immunoglobulin A (IgA)	❍				❍	●				
Immunoglobulin E (IgE)					●	●				
Immunoglobulin G (IgG)	❍				❍	●		●		
Immunoglobulin G Subclasses 1–4						●				
Immunoglobulin M (IgM)	❍				❍	●				
Iron	●				❍					
Iron (TIBC)	❍									
Kappa Light Chain						●				
Lactate (Lactic Acid)	●							●		
Lactate Dehydrogenase (LDH)	●							●		
Lambda Light Chain						●				
Lidocaine					●					
Lipase	●									
Lithium	●				●					
Luteinizing Hormone (LH)					●					
Magnesium	●						●			●
Microalbumin										●
Myoglobin		●								
N-Acetylprocainamide (NAPA)					●					
NT-proBNP		●								
Phenobarbital	●				●					
Phenytoin	●				●					
Phosphorus	●									●
Potassium	●						●			●
Prealbumin	❍					●				
Procainamide					●					
Prolactin					●				●	
Protein (Total)	●					●		●		●
PSA					●				●	
PSA (Free)					●				●	
Pseudocholinesterase	❍									
Retinol Binding Protein (RBP)						●				
Rheumatoid Factor						●				
Salicylate	●				●					
Sodium	●						●	●		●
T3 (Free)					●					
T3 (Total)	●				●					
T3 Uptake/T-Uptake	●				●					
T4 (Free)	●				●					
T4 (Total)	●				●					
Theophylline	●				●		●			
Tobramycin	●				●					
Transferrin	❍					●				
Tricyclic Antidepressants (TCA) Screen					●					
Triglycerides	●									
Troponin I		●								
TSH	●				●					
Urea Nitrogen	●									●
Uric Acid	●									●
Valproic Acid	●				●					
Vancomycin					●					
Vitamin B_{12}	❍				●					

EQAS Programs

● Analyte present
◗ Pilot analyte

See page number	34			35			36			37		38			39		
	Blood Gas	Blood Typing	Cardiac Markers	Clin. Chemistry (Monthly)	Coagulation	Ethanol/Ammonia	Hematology	Hemoglobin	HIV/Hepatitis	Immunoassay (Monthly)	Lipids	Serum Proteins	Syphilis/Chagas	TDM	ToRCH/EBV/MuMZ	Urinalysis	Urine Chemistry
5-Hydroxyindoleacetic Acid (HIAA)																	●
11-Deoxycortisol										●							
17-α-OH-Progesterone										●							
25-OH Vitamin D										●							
α-1 Acid Glycoprotein												●					
α-1 Antitrypsin												●					
α-2 Macroglobulin												●					
β-2 Microglobulin										●		●					
ABO Group		●															
Acetaminophen														●			
Acid Phosphatase (Total)				●													
ACTH										●							
Alanine Aminotransferase (ALT/SGPT)				●													
Albumin				●								●				●	
Albumin-to-Creatinine Ratio																●	
Aldosterone										●							
Alkaline Phosphatase (ALP)				●													
Alphafetoprotein (AFP)										●							
Amikacin														●			
Amitriptyline														●			
Ammonia						●											
Amylase (Pancreatic)				●													
Amylase (Total)				●													
Androstenedione										●							
Angiotensin Converting Enzyme (ACE)										●							
Antigen Typing		◗															
Antistreptolysin O (ASO)												●					
Antithrombin III (ATIII)					●												
Anti-HAV									●								
Anti-HBc									●								
Anti-HBe									●								
Anti-HBs									●								
Anti-HCV									●								
Anti-HIV-1									●								
Anti-HIV-1/2									●								
Anti-HIV-2									●								
Anti-HTLV-I									●								
Anti-DNase B												◗					
Antibody Identification		●															
Antibody Screen		●															
Apolipoprotein A-1											●						
Apolipoprotein B											●						
APTT					●												
Aspartate Aminotransferase (AST/SGOT)				●													
Bile Acid				◗													
Bilirubin																●	
Bilirubin (Direct)				●													
Bilirubin (Indirect)				◗													
Bilirubin (Total)				●													
Blood/Hemoglobin																●	
BNP			●														
C-Peptide										●							
C-Reactive Protein (CRP)												●					
CA 15-3										●							
CA 19-9										●							
CA 27.29										●							
CA 125										●							
Caffeine														●			
Calcium (Ionized)	●			●													

EQAS Programs

● Analyte present
◗ Pilot analyte

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	Blood Gas	Blood Typing	Cardiac Markers	Clin. Chemistry (Monthly)	Coagulation	Ethanol/Ammonia	Hematology	Hemoglobin	HIV/Hepatitis	Immunoassay (Monthly)	Lipids	Serum Proteins	Syphilis/Chagas	TDM	ToRCH/EBV/MuMZ	Urinalysis	Urine Chemistry
Calcium (Total)				●													●
Carbamazepine										●				●			
Carbon Dioxide (CO_2)				●													
Carcinoembryonic Antigen (CEA)										●							
Ceruloplasmin												●					
Chloride	●			●													●
Cholesterol (HDL)				●							●						
Cholesterol (LDL)				●							●						
Cholesterol (non-HDL)											◗						
Cholesterol (Total)				●							●						
Cholinesterase				●													
CK-MB			●														
Compatibility (Cross-match)		●															
Complement C3												●					
Complement C4												●					
Copper				●													
Cortisol				●						●							
Cortisol (Free)																	●
Creatine Kinase (CK)				●													
Creatinine				●												●	●
Cyclosporine														●			
Cytomegalovirus (CMV) IgG															●		
Cytomegalovirus (CMV) IgM															●		
DAT (Direct Antiglobulin Test)		●															
D-dimer			●		●												
DHEA										●							
DHEA Sulfate										●							
Digoxin										●				●			
Dopamine																	●
Epinephrine																	●
Epstein-Barr Virus (EBNA) IgG															●		
Epstein-Barr Virus (VCA) IgG															●		
Epstein-Barr Virus (VCA) IgM															●		
Estradiol										●							
Estriol, Free (UE_3)										●							
Ethanol						●											
Ethosuximide														●			
Factor VIII					●												
Ferritin										●							
Fibrinogen					●												
Folate										●							
Follicle Stimulating Hormone (FSH)										●							
Fructosamine										◗							
Gamma Glutamyltransferase (GGT)				●													
Gastrin										●							
Gentamicin														●			
Glucose	●			●												●	●
Haptoglobin												●					
HAV IgG									●								
HAV IgM									●								
HBc IgM									●								
HBeAg									●								
HBsAg									●								
hCG										●							
Hematocrit (HCT)							●										
Hemoglobin A1C								●									
Hemoglobin A_2								●									
Hemoglobin							●										
Hemoglobin (Total Glycated)								●									

EQAS Programs

● Analyte present
◗ Pilot analyte

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	Blood Gas	Blood Typing	Cardiac Markers	Clin. Chemistry (Monthly)	Coagulation	Ethanol/Ammonia	Hematology	Hemoglobin	HIV/Hepatitis	Immunoassay (Monthly)	Lipids	Serum Proteins	Syphilis/Chagas	TDM	ToRCH/EBV/MuMZ	Urinalysis	Urine Chemistry
Herpes Simplex Virus (HSV-1) IgG															●		
Herpes Simplex Virus (HSV-1/2) IgG															●		
Herpes Simplex Virus (HSV-2) IgG															●		
hGH										●							
HIV-1 Ag									●								
Homocysteine			●														
Homovanillic Acid (HVA)																	●
hs-CRP			●														
IgA												●					
IgE										●		●					
IgG												●					
IgM												●					
INR					●												
Insulin										●							
Intact PTH										●							
Iron				●													
Iron Binding Capacity, Total (TIBC)				●													
Iron Binding Capacity, Unsaturated (UIBC)				●													
Kappa Light Chain												●					
Ketones																●	
Lactate (Lactic Acid)	●			●													
Lactate Dehydrogenase (LDH)				●													
Lambda Light Chain												●					
Leukocytes																●	
LH										●							
Lipase				●													
Lipoprotein (a)											●						
Lithium				●										●			
Magnesium	●			●													●
Mean Corpuscular Hemoglobin (MCH)							●										
Mean Corpuscular Hemoglobin Concentration (MCHC)							●										
Mean Corpuscular Volume (MCV)							●										
Mean Platelet Volume (MPV)							●										
Measles Virus (Rubeola) IgG															●		
Metanephrine																	●
Methotrexate														●			
Microalbumin																	●
Mumps Virus IgG															●		
Myoglobin			●														
Nitrite																●	
Non-Treponemal antibodies													●				
Norepinephrine																	●
Normetanephrine																	●
Nortriptyline														●			
NSE										●							
NT-proBNP			●														
Osmolality				●													●
pCO_2	●																
pH	●															●	
pO_2	●																
Phenobarbital										●				●			
Phenytoin										●				●			
Phosphorus				●													●
Plasma Renin Activity (PRA)										●							
Platelets (PLT)							●										
Potassium	●			●													●
Pregnancy (hCG)																●	
Prealbumin												●					
Primidone														●			

EQAS Programs

● Analyte present
◗ Pilot analyte

See page number	34			35			36			37		38			39		
	Blood Gas	Blood Typing	Cardiac Markers	Clin. Chemistry (Monthly)	Coagulation	Ethanol/Ammonia	Hematology	Hemoglobin	HIV/Hepatitis	Immunoassay (Monthly)	Lipids	Serum Proteins	Syphilis/Chagas	TDM	ToRCH/EBV/MuMZ	Urinalysis	Urine Chemistry
Progesterone										●							
Prolactin										●							
Protein C					●												
Protein S					●												
Protein (Total)				●								●					●
Protein-to-Creatinine Ratio																●	
PSA (Free)										●							
PSA (Free/Total Ratio)										●							
PSA (Total)										●							
PT					●												
Red Blood Cells (RBC)							●										
Red Blood Cell Distribution Width (RDW)							●										
Red Blood Cell Distribution Width (RDW-SD)							●										
Renin										●							
Rh(D)		●															
Rheumatoid Factor (RF)												●					
Rubella Virus IgG															●		
Rubella Virus IgM															●		
S100 Protein										●							
Salicylate														●			
Sex Hormone Binding Globulin (SHBG)										●							
Sodium	●			●													●
Specific Gravity																●	
T3 Uptake										●							
T-Uptake										●							
Testosterone										●							
Testosterone (Free)										◗							
Theophylline										●				●			
Thrombin Time (TT)					●												
Thyroglobulin (Tg)										◗							
Thyroid Stimulating Hormone (TSH)				●						●							
Thyroxine Binding Globulin (TBG)										●							
Thyroxine, Free (T_4)				●						●							
Thyroxine (T_4), Total				●						●							
Tobramycin														●			
Toxoplasma gondii (Toxo) IgG															●		
Toxoplasma gondii (Toxo) IgM															●		
Transferrin				◗						●		●					
Treponema pallidum IgG													●				
Treponema pallidum IgM													●				
Treponema pallidum Total Antibody													●				
Tricyclic Antidepressants (TCA) Screen														●			
Triglycerides				●							●						
Triiodothyronine, Free (T_3)				●						●							
Triiodothyronine (T_3), Total				●						●							
Troponin I			●														
Troponin T			●														
Urea				●													◗
Urea Nitrogen				●													●
Uric Acid				●													●
Urobilinogen																●	
Valproic Acid										●				●			
Vancomycin														●			
Vanillylmandelic Acid (VMA)																	●
Varicella Zoster Virus (VZV) IgG															●		
Vitamin B_{12}										●							
von Willebrand Factor (vWF)					●												
White Blood Cells (WBC)							●										
Zinc				●													

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As a convenience to our customers, we can set up standing orders for a specific lot of product to be shipped on scheduled dates. Shipment dates with respective quantities must be specified at the time of order. All standing order shipments must be taken six months before the product’s expiration date. Restocking charges will apply to canceled standing orders.

Terms of Sale

Our terms are net due 30 days from the date of invoice. Prices are FOB shipping point. For a complete listing of terms and conditions regarding quantity, pricing, applicable taxes, delivery, discrepancies, returned goods and cancellation policies, please contact our Customer Service Department.

For Worldwide Customers

For service outside the United States, please refer to page 159 for the Bio-Rad location nearest you.

Communication Overview

Product chemical hazard information is communicated through standard statements and hazard symbols on our labeling and Safety Data Sheet (SDS).

This information was previously based on the older system contained in the European Union *Dangerous Substances Directive and the Dangerous Preparations Directive*. This system is now being replaced with the *Globally Harmonized System of Classification and Labeling of Chemicals* (GHS), which is a new international system for chemical classification introducing new hazard symbols (pictograms) and labeling phrases.

The key elements for the label under the GHS include:

- hazard pictograms
- a signal word – either DANGER or WARNING – where necessary
- hazard statements, indicating the nature and degree of the risks posed by the product
- precautionary statements, indicating how the product should be handled to minimize risks to the user (surrounding population and the general environment)

For a copy of an SDS, or for environment or safety related information, contact the Bio-Rad office nearest you. You can find a complete list of Bio-Rad offices on the inside back cover of this catalog. SDS and product inserts are also available online at www.QCNet.com.

(Note: European Union Regulation No. 1272/2008 on Classification, Labeling and Packaging (CLP) aligns the European Union system of classification, labeling and packaging chemical substances and mixtures to the GHS).

Hazard information according to *Globally Harmonized System of Classification and Labeling of Chemicals (GHS)*

Health Hazards

Skull & Crossbones | Corrosion | Exclamation Mark | Health Hazard

Environmental Hazards

Environment Hazard

Physical Hazards

Corrosion

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H411	Toxic to acquatic life with long lasting effects.
H412	Harmful to acquatic life with long lasting effects.

Precautionary Statements

P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.	
P305 + P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.	
P337 + P313 If eye irritation persists: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P310 IF SWALLOWED: Immediately call a POISON Center or doctor/physician.	

CE Marking on Bio-Rad Products

What is the CE Mark?

The letters “CE” are an abbreviation of the French phrase “Conformité Européenne.” The CE Mark on the Bio-Rad quality control products indicates the products have been designed and manufactured in an approved quality system and conform to all requirements of the In Vitro Diagnostic Directive (IVDD, 98/79/EC) and the regulation on in vitro diagnostic medical devices, Regulation 2012/0267. The CE Mark allows products to be sold within the European Economic Area (EEA).

How is CE Marking obtained?

Companies must have their quality system certified by a European-based Notified Body in order to obtain CE Marking. A Notified Body is an organization authorized by the EEA to inspect facilities, processes, technical data, and/or test products to assess conformity to the appropriate standards. The quality system at Bio-Rad has been certified to be in conformance with the IVDD and the ISO 13485 quality system standards. A European Authorized Representative is also required for companies not based in the EEA. The Bio-Rad entity located in Marnes, France, is the Authorized Representative for Bio-Rad.

What does CE Marking mean for Bio-Rad quality control products?

In addition to allowing Bio-Rad to continue to sell products in the EEA, CE Marking also demonstrates how Bio-Rad continues its commitment to quality. CE Marking is an extra measure of confidence that customers can have with Bio-Rad quality control products.

Labeling Symbols

CE	European Conformity		Use by YYYY-MM-DD (Expiration Date)	+	Reconstitute With
IVD	In Vitro Diagnostic Medical Device		Manufacturer	REF	Catalog Number
	Temperature Limitation (Recommended product storage range)	Mfd. For	Manufactured for	LOT	Lot Number
EC REP	Authorized Representative	or myeinserts.com	Consult instructions for Use (Refer to package insert)	⚠	Caution, Consult Accompanying Documents
CYCLE	Cycle Number		Results Receipt Date	SAMPLE	Sample Number

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