



2009–2010 Edition
















Quality Control Products & Services Catalog

BIO-RAD





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Quality Control Products & Services

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BIO-RAD

#1 Choice for Quality Control

“Fast, precise, even when dealing with another manufacturer. A great help!”

— Customer in Michigan

Bio-Rad would like to thank you, our customers, for your continued support and guidance in the advancement of laboratory quality systems throughout the world.

Bio-Rad Laboratories has played a leading role in the advancement of scientific discovery for over 50 years by providing a broad range of innovative products and services to the clinical diagnostic and life science research markets. Today, Bio-Rad employs more than 6,500 professionals worldwide and serves more than 85,000 research and industry customers.

For over 25 years, Bio-Rad has been at the forefront of quality control systems development for clinical diagnostic laboratories worldwide. We are proud to offer a portfolio of products that facilitates effective quality testing, analysis and improvement in clinical laboratories.

The background of the slide features a large, stylized DNA double helix structure in shades of blue, green, and orange. In the top left corner, there is an inset image showing laboratory glassware, including a beaker and a small brown vial with a white cap. The main title 'The Quality System' is positioned in the upper right area in a large, bold, green font.

The Quality System

A small circular inset image showing a laboratory vial, connected by a blue line to the 'Product Offering' box.

Product Offering

Over 300 quality control products to choose from with over 600 of the analytes tested in most areas of the lab.

A small circular inset image showing a laboratory setting, connected by a green line to the 'Data Management' box.

Data Management

Through advanced technologies and efficient information management, Bio-Rad stands far ahead in providing laboratories more powerful tools and connectivity solutions to help ensure reliable test systems.

A small circular inset image showing a person's face, connected by a yellow-green line to the 'Customer Service' box.

Customer Service

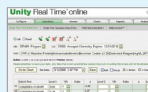
Our priority is to make sure our customers are well trained and completely satisfied with our products and services, around the clock.

A small circular inset image showing a person's face, connected by an orange line to the 'Education' box.

Education

Bio-Rad Laboratories provides basic to advanced level educational programs that can improve your working knowledge and help you earn additional credits towards your continuing education.

New Products & Services



Unity Real Time® online Page 11

The expert QC data management tool is now available online. No software to install.



UnityWeb® 2.0 Page 12

UnityWeb® is the highly anticipated upgrade to the entry-level online QC data management tool.



UnityConnect™ Page 13

Capture QC data from your instrument or LIS over serial, ethernet or a wireless connection with our latest integrated connectivity solution.



Liquichek™ Diabetes Control Page 46



Liquichek™ Microalbumin Control Page 34



Lyphocheck® Whole Blood Immunosuppressant Control Page 24



Liquichek™ Tumor Marker Control Page 20



Lyphocheck® Tumor Marker Plus Control Page 20



VIROTROL® HIV-1 Ag Page 82



VIROTROL® Chagas Page 90



Assayed VIROTROL® II-A Page 82



Assayed VIROTROL® II-B Page 82



AmpliTrol™ III Page 78



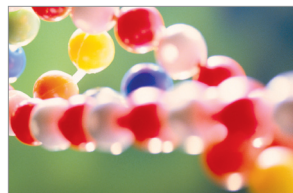
EQAS Urine Chemistry Program Page 95



EQAS Hematology Program Page 98

Take a Look Around the Catalog

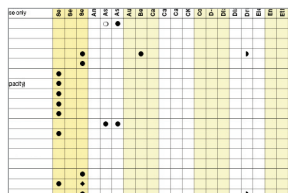
There may be some areas in our catalog that are new to you or areas you always wished we had, but didn't know were there. So take a look around and see what new things you may find.



Molecular Controls Category Page 75-78



QC Education: Books, Guides, Online Learning and More Page 100-101



Analyte Index for Finding QC Products Page 112-131



External Quality Assurance Services (EQAS) Page 91-98



How to Place an Order

For Ordering Within the United States

By Phone

1-800-2-BIORAD
(1-800-224-6723)
Monday – Friday
6:00 AM to 4:30 PM
Pacific Standard Time (PST)

By Mail

Bio-Rad Laboratories, Inc.
Clinical Diagnostics Group
Customer Services
4000 Alfred Nobel Drive
Hercules, CA 94547

By Fax

1-510-741-6373

By Email

diagcs@bio-rad.com

Be Sure Your Order Includes

Purchase order number, “ship to” address and “bill to” address, catalog number, product name, quantity required (unit and size), desired lot number and the required delivery date. To avoid duplicate shipments, confirming orders must be clearly marked “Confirming Order/Do Not Ship.”

Standing Orders

We are happy to set up standing orders for a specific lot of product to be shipped on scheduled dates. Shipment dates and quantities to be shipped must be specified on a purchase order or standing order 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 the inside back cover of this catalog for the Bio-Rad location nearest you.



Product Support

Support of Bio-Rad controls and software products does not end when you receive your products. Three 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 Standard Time (PST)

By Fax

1-949-598-1531

Technical Service

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

QC Program

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

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, PACE accreditation may be obtained. Contact your local Bio-Rad office for more information on continuing education programs.

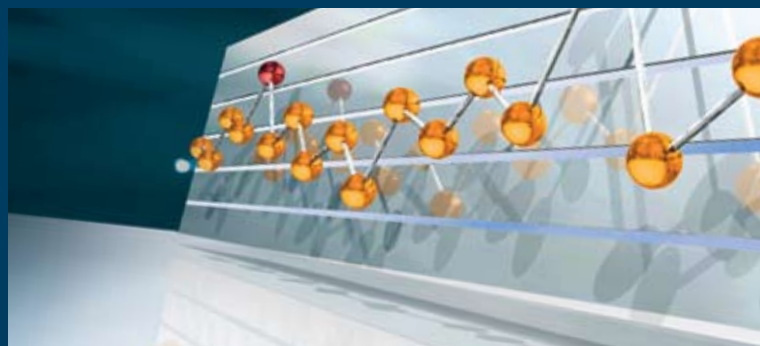
Software and Connectivity Support

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

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QC Data Management Solutions

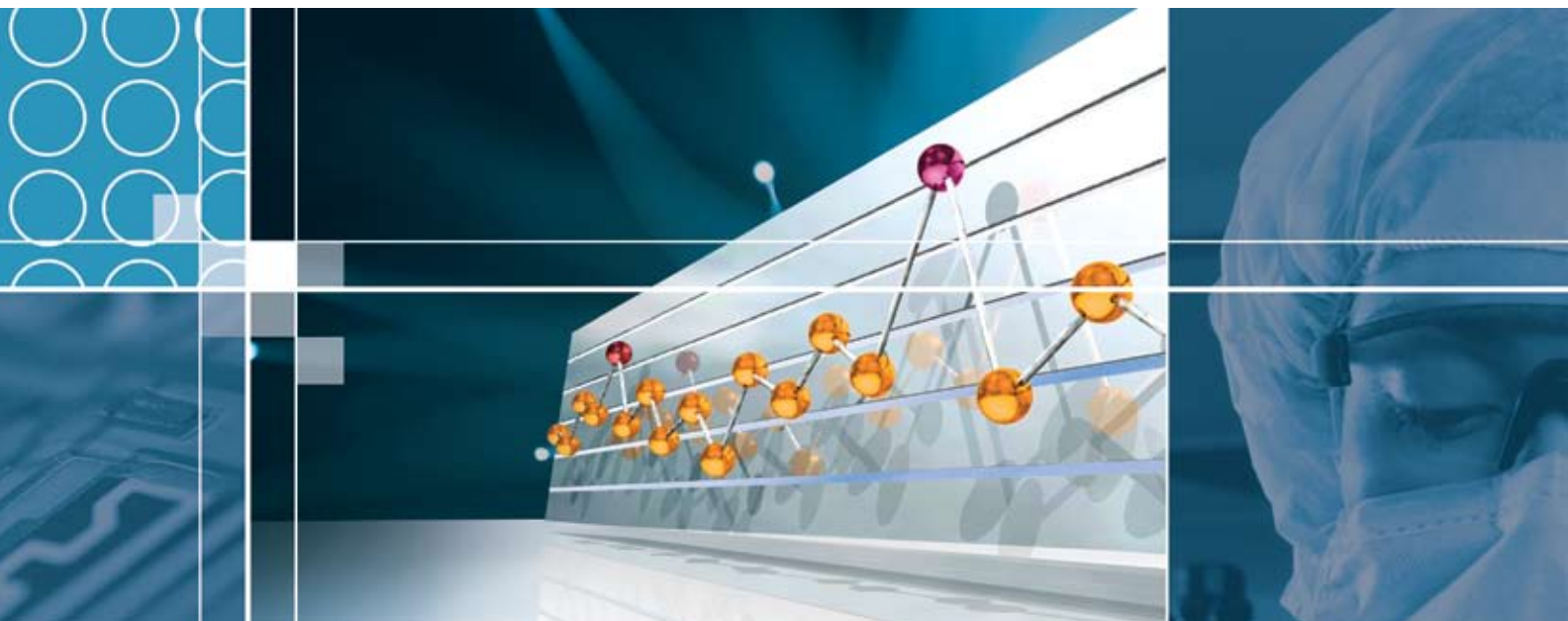


Quality Control Services

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Quality Control Software Solutions

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Introduce Your Laboratory to a Whole New World of Unity™ Data Management Solutions

Using our comprehensive product line of third party controls is an important step toward improving the reliability of your laboratory test results. The ability to successfully manage and interpret your quality control results is also essential to producing solid, dependable laboratory outcomes.

Bio-Rad Laboratories offers a vision and a commitment to quality control that is unsurpassed in the clinical laboratory industry. Today, your laboratory can be connected to the Unity™ Interlaboratory Program, the world's largest community of quality control users. Improve patient care and cost effectiveness with quality control products, quality control data management solutions, industry-leading interlaboratory comparisons and personalized service from Bio-Rad.

“...for laboratory self-evaluation, peer-related bias and relative imprecision are useful parameters.”

– CLSI (formerly NCCLS), C24-A3, Vol. 26, No. 25.

Unity™ Interlaboratory Program

Participation in an interlaboratory program is extremely important for laboratories to help ensure the reliability and precision of test systems. No program in the world is more powerful and effective at providing information and helping to improve laboratory analytical performance than the Unity™ Interlaboratory Program.

- Over 15,000 participating laboratories worldwide
- Recognize analytical process improvement opportunities
- Increase confidence in proficiency survey outcomes
- Identify unrecognized trends or shifts that may occur between proficiency surveys
- Receive on-demand interlaboratory comparison reports
- Receive monthly reports with regular data submission deadlines
- Submit data in real time using one of our Unity™ software solutions
- Get reports, product information and more on QCNet™ – www.QCNet.com

Want to know more? Visit us online at www.QCNet.com/Unity

Detecting Errors in Your Test System

Without a high quality interlaboratory program, your laboratory may not be aware of gradual or sudden changes in your test system that may be caused by events such as reagent or calibrator reformulations, standardization changes, or instrument software changes. An interlaboratory program can offer early awareness of shifts and trends to help avoid costly test repeats and unnecessary troubleshooting.

Improving Outcomes on Proficiency Surveys

An interlaboratory program can also increase your confidence in proficiency surveys. If your laboratory compares well to other laboratories in an interlaboratory program, you are also likely to compare well to other laboratories participating in your proficiency testing program.

Your Proficiency Program is Not Enough

- Proficiency surveys merely provide a snapshot in time and should not be used as a substitute for daily quality control with an interlaboratory program.
- Acceptable performance on the day of the proficiency testing does not guarantee testing reliability every day.
- Participation in an interlaboratory program is the best way to be confident in test system performance every day, especially with an interlaboratory program that offers an option to receive instant interlaboratory feedback on demand.

"The laboratory shall participate in interlaboratory comparisons . . ."

– ISO 15189:2003(E), Subclause 5.6.4.

Unity™ Interlaboratory Reports. Participate Today!

With Unity™, you have the ability to receive on-demand InstantQC™ Reports in addition to standard monthly Unity™ Interlaboratory Reports. This will allow your laboratory to take full advantage of the best of two worlds. Both report types are available at QCNet.com.

InstantQC™ Reports permit you to compare your control results to other laboratories at any time. These reports are particularly useful for troubleshooting problems with test system performance because of the rapid report turnaround times.

Monthly Unity™ Interlaboratory Reports ensure that peer group sizes are maximized for regular, periodic review of your test systems. These reports are comprehensive and represent the largest peer groups in the industry.

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.

Internet-based solutions such as UnityWeb® and Unity Real Time® online eliminate the need to install and update software locally in your laboratory, and reduce the amount of support necessary from on-site IT staff.

Desktop software solutions, like Unity Desktop® and Unity Real Time®, are appropriate if your internet connection is not sufficient, or if you prefer to maintain local software.



	UnityWeb®	Unity Desktop®	Unity Real Time® online	Unity Real Time®
Software Version	2.0	1.0	1.0	1.0
Type of Solution	Web Service	Desktop Software	Web Service	Desktop Software
Unity™ Interlaboratory Reports	Monthly Reports & InstantQC™	Monthly Reports	Monthly Reports & InstantQC™	Monthly Reports & InstantQC™
Basic Interlaboratory QC Data Management Features	Westgard Rules, Various Charts & Reports	Westgard Rules, Various Charts & Reports	Westgard Rules, Various Charts & Reports	Westgard Rules, Various Charts & Reports
Advanced Interlaboratory QC Data Management Features	Westgard Advisor™ online (Subscription Sold Separately) Bench Review	-	Westgard Advisor™ online (Subscription Sold Separately) Bench & Supervisor Data Review Analytical Goals Dynamic Data Set Comparisons	Westgard Advisor™ (Subscription Sold Separately) Bench & Supervisor Data Review Analytical Goals Dynamic Data Set Comparisons
Database Platform	Bio-Rad Hosted	Installed on Local Laboratory PC	Bio-Rad Hosted or Laboratory Hosted	Installed on Local Laboratory PC or Server
Requirements	Microsoft® Internet Explorer® 6.0+ Firefox® 2.0.0.8+	Microsoft® Windows® 98 or higher	Microsoft® Internet Explorer® 6.0+ Firefox® 2.0.0.8+	Microsoft® Windows® XP SP2 or higher
Connectivity (Sold Separately)	WebConnect™ UnityConnect™	UnityConnect™	WebConnect™ UnityConnect™	UnityConnect™

If you would like assistance deciding which solution is best for your laboratory, please contact your local Bio-Rad representative.



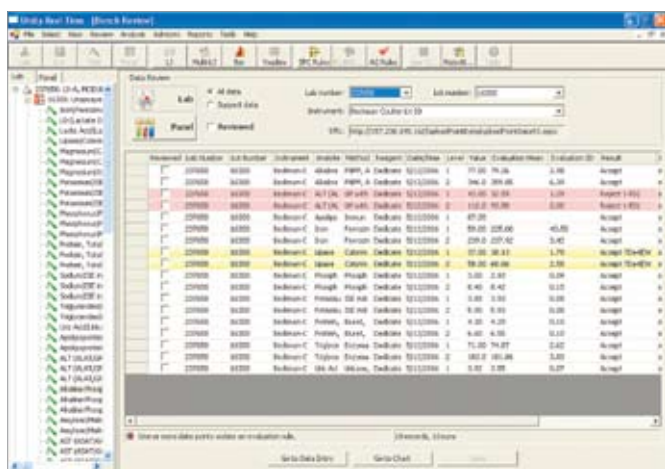
Unity Real Time®

Expert QC Data Management Solution
for Desktop or Online Users

INCLUDED

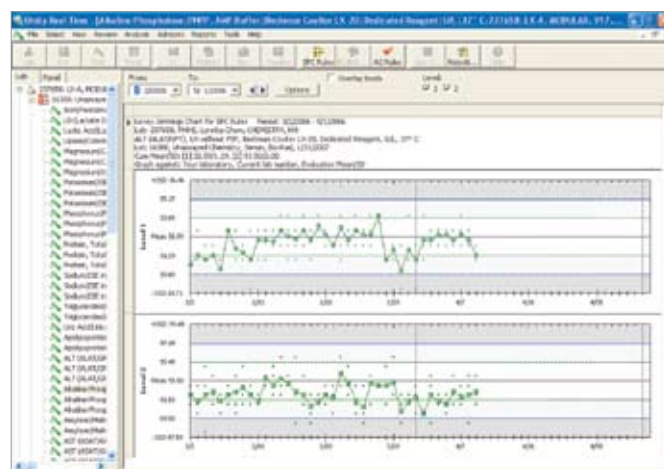
Unity™ Interlaboratory
Program Participation

- Facilitate regulatory 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
- RiLiBÄK Advisor™ module to comply with German regulations
- Upload QC data points from an LIS, middleware or instrument (optional)



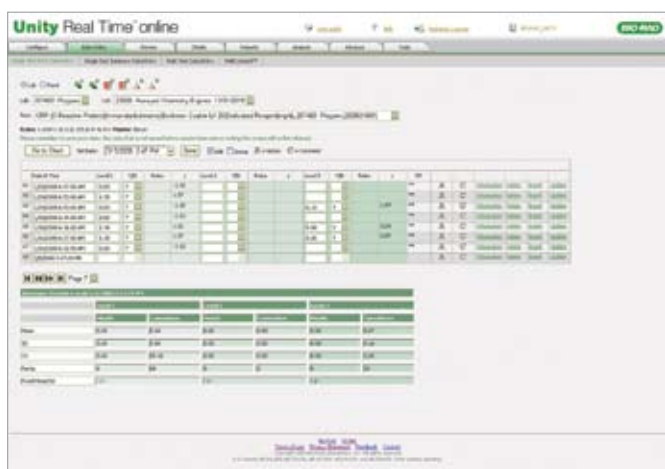
Unity Real Time®

Routine QC data review is streamlined for bench-level technologists and lab supervisors with the Bench and Supervisor Review features.



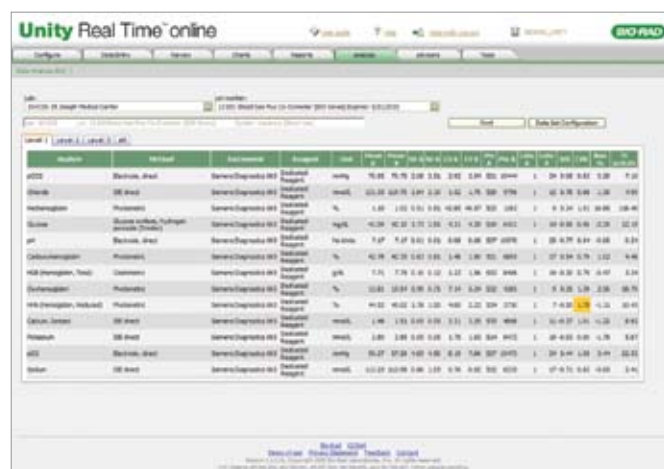
Unity Real Time®

Evaluate specific trends or shifts using Levey-Jennings charts and other advanced charting options.



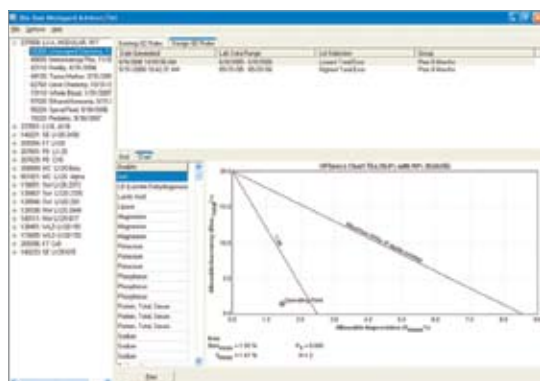
Unity Real Time® online

Comprehensive data entry screens provide a complete audit trail of lot-to-date performance.



Unity Real Time® online

The patented Data Analysis Grid facilitates the comparison of user-selected QC data sets, such as two instruments running the same set of tests.



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



UnityWeb®

Entry-Level Online QC Data Management Solution

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

INCLUDED

Unity™ Interlaboratory Program Participation



Enter QC data efficiently for interlaboratory comparison using the multi-test data entry screens.



Conveniently manage the configuration of control lots and tests.



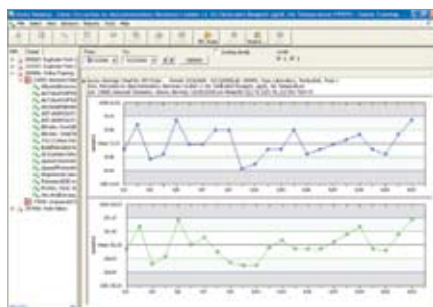
INCLUDED

Unity™ Interlaboratory Program Participation

Unity Desktop®

Entry-Level QC Data Management Solution

- Basic QC rules, charts and reports
- Configurable Levey-Jennings charts with side-by-side display
- Easily upgradable to Unity Real Time® for more advanced tools and features
- Upload QC data points from an LIS, middleware or instrument (optional)



Easily detect trends or shifts with configurable Levey-Jennings charts.



Set up Westgard rules to evaluate each data point.



Automated Uploads to Unity™ Software

Automate the data entry to your Unity™ software with UnityConnect™ or WebConnect™. Free up valuable lab technician time by eliminating the time consuming and error-prone manual keying of data.

UnityConnect™

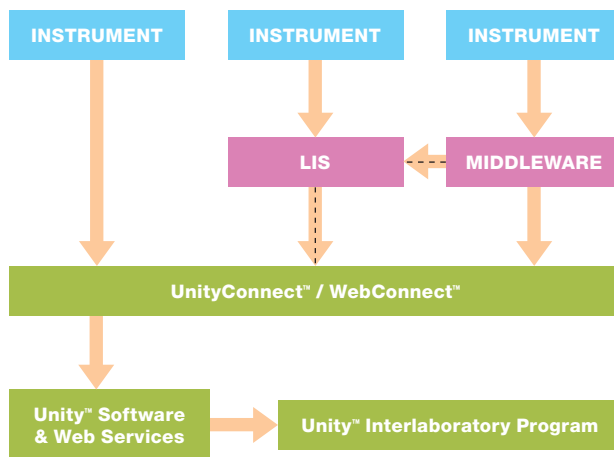
A connectivity solution that allows QC data from LIS systems, middleware and/or instruments to be quickly and easily imported into Unity™ software and web services.

- Eliminates manual keying of QC data
- Enables standard LIS QC reports to be used
- Provides automatic data import
- Provides real-time connection
- Transparent to the flow of data to the LIS
- Captures and analyzes QC data economically from laboratory instruments not connected to the LIS
- Easy-to-install optional interface hardware
- Choose from soft, serial, ethernet and wireless connections

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®.

- Eliminates manual keying of data
- Enables standard LIS QC reports to be used
- No software to install



The chart above demonstrates how Bio-Rad connectivity solutions provide QC data import from your instrument to your Unity™ software, allowing you to view your data instantly.

Login

Login ID

Password

[Login](#)[Forgot Password](#)[Register](#)

Find more tools, resources
and the perfect place for
your laboratory to access
your data – right online.

[Learn More About QCNet »](#)**Unity Interlab**

No program in the world is
more powerful and effective at
providing information and
improving laboratory

QCNet™ is the Industry's Leading Portal for Laboratory Quality Control

Get started today! More powerful tools and QC resources available at www.QCNet.com.

QCNet™ is the industry leading online portal to QC information. It provides laboratory personnel with an easy and rapid way to access their quality control data and other QC related information. QCNet™ enables access to on-demand (InstantQC™) and monthly Unity™ Interlaboratory Reports. In addition, QCNet™ provides users with access to technical information, continuing education, product inserts, MSDS, reference links to relevant QC related websites and lab tools.

LabTools™

Linearity Web™ is a software tool that makes it easy to quickly and accurately verify the linearity and reportable range for the Lyphochek® Hemoglobin A1C Linearity Set. A comparison using peer group values is a unique feature of this software. Useful graphics are provided for linear regression and percent bias.

QCNet™ University

Continuing Education Units (CEU) are provided on QCNet™ (www.QCNet.com) for laboratory professionals to conveniently earn at any time or any place. Relevant course content allows laboratory professionals to increase their knowledge. Continuing Education certificates can be printed online.

Current QC Information

The QC portal experience is enhanced with key news articles, a professional calendar, expert technical articles and discussion forums.

Product Inserts

Display electronic copies of Bio-Rad control product inserts to assess products and obtain lot specific assay data.

References

Link to other websites for relevant laboratory information and regulations.

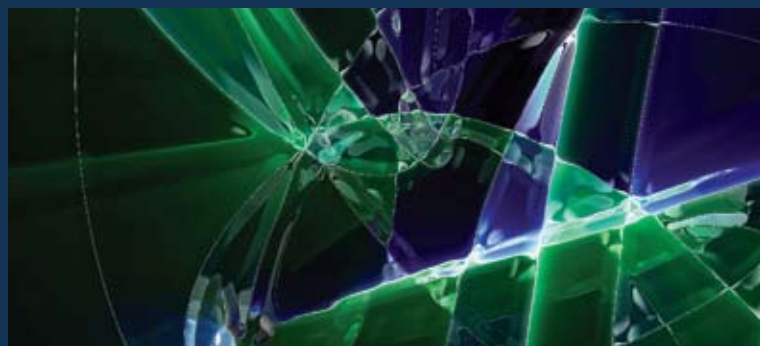
Material Safety Data Sheets

Material Safety Data Sheets (MSDS) are provided online to support laboratory requirements for safety information.

EQAS

View information about external proficiency programs from Bio-Rad. Submit your data electronically and receive reports online.

Immunoassay Controls



Liquichek™ Immunoassay Control	17
Lyphochek® Immunoassay Control	18
Liquichek™ Specialty Immunoassay Control	19
Lyphochek® Anemia Control	19
Liquichek™ Tumor Marker Control	20
Lyphochek® Tumor Marker Plus Control	20
Lyphochek® Maternal Serum Control	21
Lyphochek® Fertility Control	21
Lyphochek® Hypertension Markers Control	22



The World's Most Widely Used Multi-Analyte Immunoassay Controls

With more than 200 analytes from routine thyroids to esoteric tumor markers, Bio-Rad immunoassay controls continuously evolve to meet the needs of your laboratory.

Since their introduction in 1959, immunoassays have evolved considerably. The development of instrumentation capable of automated immunoassays has enabled movement of this technology from the special chemistry sections of a clinical laboratory into the core laboratory with other high-volume testing.

Immunoassays now play a prominent role in the analysis of many clinical laboratory analytes. With literally thousands of possible analyte and method combinations available, today's busy laboratory is no longer satisfied with single analyte controls that are designed to work

only on one testing platform. As the worldwide leader in quality control products and services, we offer a better solution – an extensive range of multi-analyte immunoassay controls with assayed values provided for hundreds of methods.

The future of immunoassays involves development of assays with higher sensitivities, the discovery of new biomarkers for disease diagnosis, and technology that will enable simultaneous multi-analyte detection. As immunoassay technology continues to advance, so does the Bio-Rad family of immunoassay controls.



Liquichek™ Immunoassay Plus Control

A liquid control designed for convenience in today's busy immunoassay laboratory. With a comprehensive analyte menu, this human serum based control can replace two or more separate control products for immunoassay and therapeutic drug monitoring procedures.

- Liquid, human serum based
- Comprehensive analyte menu
- Assayed values available for most automated immunoassay analyzers
- 14 day open-vial stability at 2-8°C for most analytes

Analytes

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

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Immunoassay Plus Control	Quantity
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



Lyphochek® Immunoassay Plus Control

Provides the clinical laboratory with the most comprehensive control in the world for monitoring immunoassay and therapeutic drug monitoring procedures, eliminating the need for separate controls. It is made from human serum and is suitable for most test methods.

- Human serum based
- Assayed for over 1100 methods
- Comprehensive analyte menu, including therapeutic drugs
- 3 year shelf life at 2–8°C

Analytes

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

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphochek® Immunoassay Plus Control	Quantity
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



Liquichek™ Specialty Immunoassay Control

A unique liquid assayed control designed to complement the popular Lyphocheck® and Liquichek™ Immunoassay Plus Controls. This product is specially formulated to include more complex analytes and provide excellent open-vial stability.

- Liquid, human serum based
- 30 day open-vial stability at 2–8°C for Intact PTH and most analytes
- Multi-analyte control including both Anti-Tg and Anti-TPO
- Assayed values available for most automated immunoassay analyzers

Analytes

Anti-Thyroglobulin (Anti-Tg)
Anti-Thyroperoxidase (Anti-TPO)
C-Peptide

Erythropoietin (EPO)*
Insulin Growth Factor I (IGF-I)
Intact PTH

25-Hydroxy Vitamin D
Osteocalcin

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Specialty Immunoassay Control	Quantity
364	Level 1 . . . . .	.6 x 5 mL
365	Level 2 . . . . .	.6 x 5 mL
366	Level 3 . . . . .	.6 x 5 mL
365X	Trilevel MiniPak (1 of each level). . . . .	.3 x 5 mL



Lyphocheck® Anemia Control

Provides low/deficient values for many analytes specific to anemia, as well as very low TSH values for ultrasensitive TSH testing.

- 3 year shelf life at 2–8°C
- Includes very low Ferritin, Folate, Vitamin B₁₂ and TSH values

Analytes

Ferritin	Prealbumin
Folate	Transferrin
Iron	TSH
Iron (TIBC)	Vitamin B ₁₂
Iron (UIBC)	

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

▼ Ordering Information

Cat #	Lyphocheck® Anemia Control	Quantity
500	Single Level. . . . .	.6 x 3 mL
500X	MiniPak. . . . .	.1 x 3 mL

Liquichek™ Tumor Marker Control

A liquid, human based, third party control for monitoring the precision of tumor marker testing procedures. This multi-analyte control has 3 levels and features 17 cancer antigens and popular tumor markers.

- Human based
- Very high levels of cancer antigens (CA) and Ferritin
- Very low PSA level for highly sensitive PSA test methods
- 30 day open-vial stability at 2–8°C for most analytes
- 2 year shelf life when stored frozen (–20°C to –70°C)



Analytes

Alphafetoprotein (AFP)	Ferritin
β-2-Microglobulin	hCG
CA 15-3	hCG-β Subunit
CA 19-9	IGF-1
CA 27.29	PAP
CA 72-4*	Prolactin
CA 125	PSA
CEA	PSA (Free)
Cyfra 21-1*	Thyroglobulin

* International Use Only. Not available for diagnostic use in the United States.

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

▼ Ordering Information

Cat #	Liquichek™ Tumor Marker Control	Quantity
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 lyophilized, human serum based, third party control for monitoring the precision of tumor marker testing procedures. This multi-analyte control has 3 levels and features 23 cancer antigens and popular tumor markers.

- Human serum based
- High levels of cancer antigens (CA) and Ferritin
- Ultra-low PSA levels designed for high sensitive PSA methods
- 14 day open-vial stability at 2–8°C for most analytes
- 3 year shelf life at 2–8°C



Analytes

ACTH	CEA
Aldosterone	Cyfra 21-1*
Alphafetoprotein (AFP)	Ferritin
β-2-Microglobulin	hCG
CA 15-3	hCG-β Subunit
CA 19-9	NSE*
CA 27.29	PAP
CA 50*	Prolactin
CA 72-4*	PSA
CA 125	PSA (Free)
Calcitonin	S-100*
CASA*	Thyroglobulin

* International Use Only. Not available for diagnostic use in the United States.

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

▼ Ordering Information

Cat #	Lyphochek® Tumor Marker Plus Control	Quantity
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



Lyphocheck® Maternal Serum Control

A trilevel product with analytes at clinically significant levels to monitor maternal serum analysis frequently performed during triple marker screening.

- Very elevated hCG and hCG- β Subunit (around 100,000 mIU/mL)
- Very low levels of Free Estriol and AFP
- Human serum based
- Unbiased assessment

Analytes

Alphafetoprotein (AFP)
Estriol (Free)
hCG (Total hCG & hCG- β Subunit)

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

▼ Ordering Information

Cat #	Lyphocheck® Maternal Serum Control	Quantity
220	Trilevel (2 of each level) . . . . .	.6 x 5 mL
220X	Trilevel MiniPak (1 of each level). . . . .	.3 x 5 mL



Lyphocheck® Fertility Control

Designed to assess the performance of those analytes most frequently assayed during fertility or pregnancy testing. Elevated hCG and hCG- β Subunit levels allow laboratories to check dilution protocols for patient samples.

- Human serum based
- Elevated hCG and hCG- β Subunit (around 20,000 mIU/mL)
- 3 year shelf life at 2–8°C
- 7 day open-vial stability at 2–8°C

Analytes

Alphafetoprotein (AFP)
Digitoxin
Estradiol
Estriol (Free)

Estriol (Total)*
Ferritin
FSH
hCG (Total hCG & hCG- β Subunit)

Human Placental Lactogen (hPL)*
LH
Progesterone
Testosterone

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphocheck® Fertility Control	Quantity
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

Lyphochek® Hypertension Markers Control

A trilevel control designed to monitor the performance of test procedures for Renin and other analytes associated with hypertension disorders.

- 2 year shelf life at 2–8°C
- 21 day open-vial stability at 2–8°C for most analytes



Analytes

ACTH
ADH*
Aldosterone
Cortisol
Direct Renin / Plasma Renin Activity (PRA)

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphochek® Hypertension Markers Control	Quantity
600	Trilevel (2 of each level) . . . . .	.6 x 2 mL
600X	Trilevel MiniPak (1 of each level). . . . .	.3 x 2 mL

Therapeutic Drug Monitoring Controls



Lyphochek® Whole Blood Immunosuppressant Control.	24
Liquichek™ Therapeutic Drug Monitoring Control (TDM)	25
Lyphochek® Therapeutic Drug Monitoring Control (TDM).	26



Dependable Performance on Over 50 Methods

Therapeutic drug monitoring is the measurement of specific drugs at intervals in order to maintain a relatively constant concentration of the medication in the bloodstream that is within the therapeutic range.

Maintaining this steady state is not as simple as giving a standard dose of medication because each person will absorb, metabolize, utilize, and eliminate drugs at a different rate based upon their age, general state of health, genetic

makeup, and the interference of other medications that they are taking. This rate may also change over time and vary from day to day.

Providing reliable test results is the key to therapeutic drug monitoring, and so it follows that the laboratory will depend on their quality control material to monitor the performance of their drug testing procedures.



Lyphochek® Whole Blood Immunosuppressant Control

A unique, lyophilized control with the flexibility to monitor 3 widely prescribed immunosuppressant drugs across a wide range of popular test procedures.

- Five individual levels that range from low to very high concentrations
- High concentrations of Cyclosporine suitable for C2 monitoring
- 3 year shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C
- 30 day reconstituted, open-vial stability at -20°C to -70°C
- Assayed values for most test methods

Analytes

Cyclosporine
Sirolimus
Tacrolimus (FK-506)

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

▼ Ordering Information

MiniPaks also available

Cat #	Lyphochek® Whole Blood Immunosuppressant Control	Quantity
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



Liquichek™ Therapeutic Drug Monitoring Control (TDM)

A liquid assayed control containing a comprehensive menu of therapeutic drugs, as well as many common ligands. Available in three levels.

- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- Includes Diazepam and Methotrexate
- 180 day unopened-vial stability at 2–8°C for most analytes
- 30 day open-vial stability at 2–8°C for most analytes

Analytes

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

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Therapeutic Drug Monitoring Control (TDM)	Quantity
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



Lyphochek® Therapeutic Drug Monitoring Control (TDM)

A human serum based control that contains over 40 analytes with assayed values at three clinically significant levels.

- Human serum based
- Includes Methotrexate
- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C for most analytes

Analytes

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

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphochek® Therapeutic Drug Monitoring Control (TDM)	Quantity
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

Chemistry Controls



Serum Chemistry Controls

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Urine Chemistry Controls

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Urinalysis Controls

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Your Chemistry Testing System Demands a More Extensive Analyte Menu

Bio-Rad serum and urine based chemistry controls suit the most demanding clinical laboratories – performing on a wide range of today’s most popular test systems.

The Clinical Chemistry department is one of the most important areas within the clinical laboratory. Often thought of as factories generating large numbers of routine results by automated methods, this is really only half the story. In addition to the high volume tests, there are many other tests performed on a wide variety of techniques, ranging from fully automated to completely manual.

The term “clinical chemistry” traditionally refers to determining the concentration or activity of a protein, carbohydrate, lipid, electrolyte, enzyme or small molecule in serum or urine. With new technologies and

ever-expanding instrument test menus, clinical chemistry now encompasses an increasing number of laboratory tests, with conventional laboratory specialization barriers rapidly fading.

Today’s clinical chemistry laboratory is more demanding than ever and appreciates the extensive range of human serum and urine based chemistry controls available from Bio-Rad. This includes controls for routine chemistry analytes and products with analyte levels targeted to meet special needs, such as pediatric chemistry and urine microscopic analysis.



Liquid Assayed Multiquel®

A comprehensive, liquid, human serum based chemistry control, available in three levels.

- 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

▼ Ordering Information

Cat #	Liquid Assayed Multiquel®	Qty	Cat #	Liquid Assayed Multiquel®	Qty
694	Level 1	12 x 3 mL	696	Level 3	12 x 3 mL
695	Level 2	12 x 3 mL	695X	Trilevel MiniPak (1 of each level)	3 x 3 mL



Liquid Unassayed Multiquel®

A comprehensive, liquid, human serum based chemistry control, available in three levels.

- 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

▼ Ordering Information

Cat #	Liquid Unassayed Multiquel®	Qty	Cat #	Liquid Unassayed Multiquel®	Qty
697	Level 1	12 x 10 mL	699	Level 3	12 x 10 mL
698	Level 2	12 x 10 mL	698X	Trilevel MiniPak (1 of each level)	3 x 10 mL

Analytes for Liquid Assayed & Unassayed Multiquel®

αHBDH	Cholesterol (HDL)	IgM	Sodium
Acetaminophen	Cholesterol (LDL)	Iron	T3 Uptake/T-Uptake
Acid Phosphatase	Cholesterol (Total)	Iron (TIBC)	T3 (Total)
Albumin	Cholinesterase	Iron (UIBC)	T4 (Free)
Alkaline Phosphatase (ALP)	CK-MB Isoenzyme	Lactate Dehydrogenase (LDH)	T4 (Total)
ALT/SGPT	Complement C3	Lactate (Lactic Acid)	Theophylline
Amikacin	Complement C4	LAP Arylamidase	Tobramycin
Amylase	Copper	Lipase	Transferrin
Amylase (Pancreatic)	Cortisol	Lithium	Triglycerides
Apolipoprotein A-1	Creatine Kinase (CK)	Magnesium	TSH
Apolipoprotein B	Creatinine	Osmolality	Urea
AST/SGOT	Digoxin	PAP	Urea Nitrogen
Bilirubin (Direct)	Ethanol	Phenobarbital	Uric Acid
Bilirubin (Neonatal)	Ferritin	Phenytoin	Valproic Acid
Bilirubin (Total)	Gentamicin	Phospholipids	Vitamin B ₁₂
Calcium (Ionized)	GGT	Phosphorus	Zinc
Calcium (Total)	Globulin	Potassium	
Carbamazepine	Glucose	Prealbumin	
Carbon Dioxide (CO ₂)	Haptoglobin	Protein Electrophoresis	
Ceruloplasmin	IgA	Protein (Total)	
Chloride	IgG	Salicylate	

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



Lyphocheck® Assayed Chemistry Control

Requires no special diluent and has good frozen reconstituted stability for enzymes and CO₂. It is assayed for more than 100 methodologies and over 30 instruments.

- Human serum based
- 3 year shelf life at 2–8°C
- 30 day frozen reconstituted stability for most analytes
- 7 day open-vial stability at 2–8°C for most analytes

▼ Ordering Information

Cat #	Lyphocheck® Assayed Chemistry Control	Quantity
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

Lyphocheck® Unassayed Chemistry Control (Human)

Provides a comprehensive analyte menu and good stability for enzymes and CO₂. It requires no special diluent and is compatible with major instruments and methodologies. Available in 5 mL and 10 mL fill sizes.

- Human serum based
- 3 year shelf life at 2–8°C
- 30 day frozen reconstituted stability for most analytes
- 7 day open-vial stability at 2–8°C for most analytes



▼ Ordering Information

Cat #	Lyphocheck® Unassayed Chemistry	Qty	Cat #	Lyphocheck® Unassayed Chemistry	Qty
731	Level 1	25 x 5 mL	C-320-10	Level 1	50 x 10 mL
732	Level 2	25 x 5 mL	C-325-10	Level 2	50 x 10 mL
730X	Bilevel MiniPak (1 of each level)	2 x 5 mL	323X	Bilevel MiniPak (1 of each level)	2 x 10 mL

Analytes for Lyphocheck® Assayed Chemistry Control & Unassayed Chemistry Control (Human)

α-1-Antitrypsin	Ceruloplasmin	IgA	Salicylate
αHBDH	Chloride	IgG	Sodium
Acetaminophen	Cholesterol (HDL)	IgM	T3 (Free)
Acid Phosphatase (Total)	Cholesterol (LDL)	Iron	T3 (Total)
Albumin	Cholesterol (Total)	Iron (TIBC)	T3 Uptake/T-Uptake
Alkaline Phosphatase (ALP)	Cholinesterase	Iron (UIBC)	T4 (Free)
Alphafetoprotein (AFP)	CO ₂	Lactate (Lactic Acid)	T4 (Total)
ALT/SGPT	Complement C3	LAP-Arylamidase	TBG
Amylase	Complement C4	LDH	Theophylline
Amylase (Alpha)	Copper	Lipase	Tobramycin
Amylase (Pancreatic)	Cortisol	Lithium	Transferrin
Apolipoprotein A-1	Creatine Kinase (CK)	Magnesium	Triglycerides
Apolipoprotein B	Creatinine	Osmolality	TSH
AST/SGOT	Digoxin	PAP	Urea
Bilirubin (Direct)	Gentamicin	Phenobarbital	Urea Nitrogen
Bilirubin (Indirect)	GGT	Phenytoin	Uric Acid
Bilirubin (Total)	GLDH	Phosphorus	Valproic Acid
Calcium	Globulin	Potassium	Vancomycin
Calcium (Ionized)	Glucose	Protein Electrophoresis	Vitamin B ₁₂
Carbamazepine	Haptoglobin	Protein (Total)	Zinc
CEA	hCG-β Subunit	PSA ¹	

¹ Available in Lyphocheck® Assayed Chemistry Control only
Refer to the package insert of currently available lots for specific analyte and stability claims



Liquichek™ Unassayed Chemistry Control (Human)

A comprehensive, stable, liquid product designed to monitor the precision of general and special chemistry tests.

- 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
- Usable across most major chemistry instruments

Analytes

Acetaminophen	Cortisol	Lactate (Lactic Acid)	T3 (Free)*
Acid Phosphatase (Total)	Creatine Kinase (CK)	LAP-Arylamidase*	T3 (Total)
Albumin	Creatinine	LDH	T3 Uptake/T-Uptake
Aldolase	Digoxin	Lipase	T4 (Free)*
Alkaline Phosphatase (ALP)	Ethanol	Lithium	T4 (Total)
ALT/SGPT	Folate	Magnesium	Theophylline
Amylase	Gentamicin	Osmolality	Tobramycin
AST/SGOT	GGT	PAP*	Transferrin
Bilirubin (Direct)*	GLDH*	Phenobarbital	Triglycerides
Bilirubin (Indirect)*	Globulin	Phenytoin	TSH
Bilirubin (Total)	Glucose	Phospholipids	Urea Nitrogen
Calcium	HBDH	Phosphorus	Uric Acid
Calcium (Ionized)*	IgA	Potassium	Valproic Acid
Carbamazepine	IgG	Protein Electrophoresis	Vancomycin
Chloride	IgM	Protein (Total)	Vitamin B ₁₂
Cholesterol (Total)	Iron	Pseudocholinesterase	Zinc
CO ₂	Iron (TIBC)	Salicylate	
Copper	Iron (UIBC)*	Sodium	

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Unassayed Chemistry Control (Human)	Quantity
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



Liquichek™ Lipids Control

A human serum based product that provides the laboratory with two distinct analyte levels for lipids analysis. It contains C-Reactive Protein in levels optimized for high-sensitivity C-Reactive Protein (hs-CRP) assays.

- Liquid, human serum based
- 3 year shelf life at -20°C to -70°C
- 14 day open-vial stability at 2–8°C

Analytes

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

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

▼ Ordering Information

Cat #	Liquichek™ Lipids Control	Quantity
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



Liquichek™ Pediatric Control

Designed to monitor important analytes for neonatal testing. This control monitors four Bilirubin parameters at two clinically significant levels.

- 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

Analytes

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

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

▼ Ordering Information

Cat #	Liquichek™ Pediatric Control	Quantity
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



Liquichek™ Ethanol/Ammonia Control

A liquid control used to monitor the precision of Ethanol and Ammonia test procedures in the clinical laboratory at normal and toxic levels.

- Liquid
- Normal Ammonia concentration in Level 1
- 2 year shelf life at 2–8°C
- 20 day open-vial stability at 2–8°C

Analytes

Ammonia
Ethanol

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

▼ Ordering Information

Cat #	Liquichek™ Ethanol/Ammonia Control	Quantity
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



Lyphochek® Quantitative Urine Control

Contains a comprehensive analyte menu for quantitative assays that monitor the precision for general urine chemistry, biogenic amines and hormones testing. It also contains hCG (for qualitative pregnancy tests) and Microalbumin at levels suitable for monitoring early proteinuria and associated nephropathy.

- Human urine based
- 28 month shelf life at 2–8°C for most analytes
- Comprehensive analyte menu and method listing

Analytes

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

* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphochek® Quantitative Urine Control	Quantity
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



Liquichek™ Urine Chemistry Control

A liquid control ideal for monitoring the precision of urine chemistry testing procedures. This control provides assayed values for urine tests commonly performed on chemistry analyzers and some manual methods.

- Liquid, human urine based
- 2 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- Assayed for quantitative microalbumin and visual pregnancy tests

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

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

▼ Ordering Information

Cat #	Liquichek™ Urine Chemistry Control	Quantity
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

Liquichek™ Microalbumin Control

A liquid, human urine based control for monitoring the precision of microalbumin test procedures. This product is designed using human albumin for testing across a wide range of popular instruments.

- Liquid, human urine based
- 2 year shelf life at 2–8°C
- 90 day open-vial stability at 2–8°C
- Assayed values available for most test methods



Analytes

Creatinine
Microalbumin

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

▼ Ordering Information

Cat #	Liquichek™ Microalbumin Control	Quantity
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

qUAntify® Control

Designed to monitor the precision of urine dipstick testing. The control is available in 12 mL ready-to-use dropper bottles.

- Liquid
- Designed for dipstick testing
- 2 year shelf life at 2-8°C
- 31 day open-vial stability at 2-25°C
- Color-coded peer group reports available



Analytes

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

* Tested and found to be negative.

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

▼ Ordering Information

Cat #	qUAntify® Control	Quantity
975	Bilevel (3 of each level)	6 x 12 mL
975X	Bilevel MiniPak (1 of each level)	2 x 12 mL



qUAntify® Plus Control

A combination urine dipstick and microscopic control. The control is available in either 12 mL centrifuge tubes or 120 mL flip-top squeeze bottles.

- Liquid
- Designed for dipstick and microscopic analysis
- 2 year shelf life at 2-8°C
- 31 day open-vial stability at 2-25°C
- Color-coded peer group reports available

qUAntify Plus Level I

Leukocytes										
neg.										
trace										
+/small										
++/mod.										
+++ /large										
Day of Month	1	2	3	4	5	6	7	8	9	10

Example Peer Group Report

Analytes

Albumin	Creatinine	Microalbumin	Protein (Total)
Albumin-to-Creatinine Ratio	Glucose	Microscopics (RBC, WBC, Crystals)	Protein-to-Creatinine Ratio
Ascorbic Acid*	Hemoglobin	Nitrite	Specific Gravity
Bilirubin	Ketones	pH	Urobilinogen
Blood	Leukocytes	Pregnancy (hCG)	

* Tested and found to be negative.

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

▼ Ordering Information

Cat #	qUAntify® Plus Control	Quantity
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



**Liquichek™
Urinalysis Control**

Specifically designed for urine dipstick and microscopic testing.
The control is available in 12 mL glass vials.

- Liquid, human urine based
- Designed for dipstick and microscopic analysis
- 30 day open-vial stability at 2–25°C
- 2.5 year shelf life at 2–8°C
- Color-coded peer group reports available

Analytes

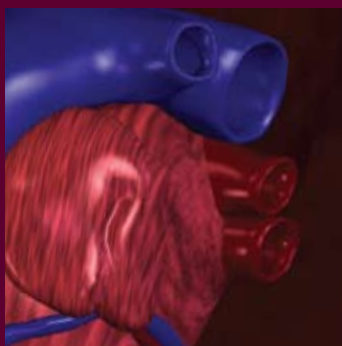
Bilirubin	Ketones	Pregnancy (hCG)
Blood	Leukocytes	Protein (Total)
Casts	Microalbumin	Protein-to-Creatinine Ratio
Clarity	Microscopics (RBC, WBC, Crystals)	Specific Gravity
Color	Nitrite	Urobilinogen
Creatinine	Osmolality	
Glucose	pH	

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

▼ Ordering Information

Cat #	Liquichek™ Urinalysis Control	Quantity
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

Cardiac Assessment Controls



Liquichek™ Cardiac Markers Plus Control	38
Liquichek™ Cardiac Markers Plus Control LT	38
Liquichek™ Cardiac Markers Control LT, Level Low.	39
Liquichek™ CK/LD Isoenzyme Control	39
Liquichek™ Homocysteine Control	40

Liquichek™ Cardiac Markers Plus Control

A premium, comprehensive cardiac assessment control with many analytes and long stability. Assayed for hs-CRP methods.

- 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



Analytes

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

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

Refer to page 42 for an overview of CRP levels in Bio-Rad Controls

▼ Ordering Information

Cat #	Liquichek™ Cardiac Markers Plus Control	Quantity
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

Liquichek™ Cardiac Markers Plus Control LT

A premium, comprehensive cardiac assessment control with many analytes and long stability. Designed to monitor lower Troponin levels. Assayed for hs-CRP methods.

- Low target levels for Troponin assays
- 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



Analytes

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

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

Refer to page 42 for an overview of CRP levels in Bio-Rad Controls

▼ Ordering Information

Cat #	Liquichek™ Cardiac Markers Plus Control LT	Quantity
145	Trilevel (2 of each level) . . . . .	.6 x 3 mL
146	Level 1 . . . . .	.6 x 3 mL
147	Level 2 . . . . .	.6 x 3 mL
148	Level 3 . . . . .	.6 x 3 mL
145X	Trilevel MiniPak (1 of each level). . . . .	.3 x 3 mL
149	Level Low . . . . .	.6 x 3 mL
149X	Level Low MiniPak . . . . .	.1 x 3 mL



Liquichek™ Cardiac Markers Control LT, Level Low

A multi-analyte, liquid control for monitoring diagnostic tests for cardiac assessment. This control is manufactured specifically to monitor low levels of Troponin on Beckman Coulter® instrumentation.

- Low target levels for Troponin
- 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

Analytes

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

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

▼ Ordering Information

Cat #	Liquichek™ Cardiac Markers Control LT, Level Low	Quantity
649	Level Low . . . . .	.6 x 3 mL
649X	Level Low MiniPak . . . . .	.1 x 3 mL



Liquichek™ CK/LD Isoenzyme Control

A liquid control that features analytes used in cardiac profile testing and protein electrophoresis. Assayed for most methods including instruments, immunoinhibition kits and electrophoresis.

- Liquid, human serum based
- 2 year shelf life at -20°C to -70°C
- 10 day open-vial stability at 2–8°C
- Contains isoenzymes for CK and LDH

Analytes

CK (Total)
CK Electrophoresis
CK-MB Isoenzyme

LD-1 Isoenzyme
LD Electrophoresis
LDH (Total)

Protein Electrophoresis
Protein (Total)

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

▼ Ordering Information

Cat #	Liquichek™ CK/LD Isoenzyme Control	Quantity
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



**Liquichek™
Homocysteine Control**

A liquid control for monitoring the precision of homocysteine test procedures. This product can be used for methods such as HPLC and automated immunoassays.

- Liquid, human serum based
- 3 year shelf life at -10°C to -70°C
- 30 day open-vial stability at 2–8°C
- Normal and abnormal levels

Analyte

Homocysteine

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

▼ **Ordering Information**

Cat #	Liquichek™ Homocysteine Control	Quantity
644	Bilevel (3 of each level) . . . . .	.6 x 1 mL
644X	Bilevel MiniPak (1 of each level) . . . . .	.2 x 1 mL

Immunology / Protein Controls



Quality Control Products

Liquichek™ Immunology Control	42
Lyphocheck® Immunology Plus Control	43
Liquichek™ Elevated CRP Control	43
Liquichek™ Rheumatoid Factor Control	43
Liquichek™ Spinal Fluid Control	44
Liquichek™ Autoimmune Controls	44

Supporting Charts

Target CRP Levels in Bio-Rad Controls	42
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Liquichek™ Immunology Control

A trilevel, liquid, comprehensive serum protein control with assayed values for a wide range of methods.

- Includes Rheumatoid Factor
- Liquid, human serum based
- Three distinct levels
- Comprehensive list of methods
- 2 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2–8°C for most analytes

Analytes

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

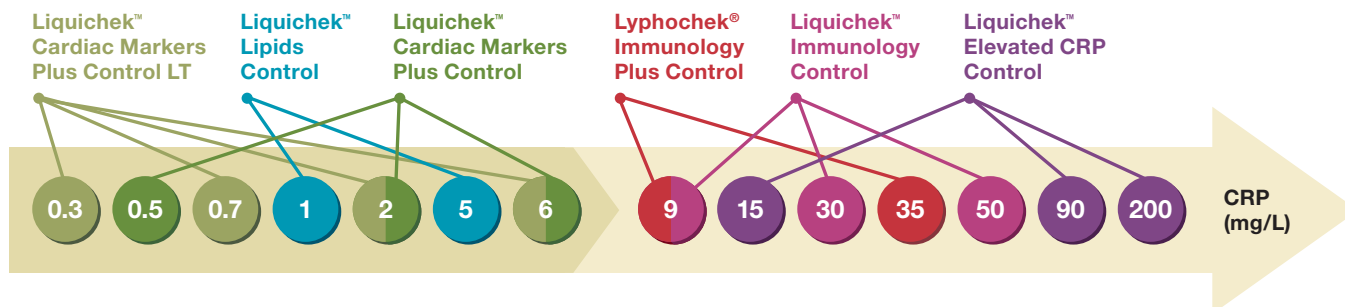
* No claims are made regarding performance or stability.
Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Immunology Control	Quantity
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
595X	Trilevel MiniPak (1 of each level)	.3 x 3 mL

Target CRP Levels in Bio-Rad Controls

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





Lyphochek® Immunology Plus Control

A bilevel, lyophilized control with assayed values for serum proteins on the most popular methods.

- Lyophilized, human serum based
- 3 year shelf life at 2–8°C
- 15 day reconstituted stability at 2–8°C

Analytes

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

* No claims are made regarding performance or stability. Refer to the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphochek® Immunology Plus Control	Quantity
430	Bilevel (6 of each level)	12 x 1 mL
430X	Bilevel MiniPak (1 of each level)	2 x 1 mL

Liquichek™ Elevated CRP Control

A liquid assayed serum control with elevated levels of C-Reactive Protein.

- Liquid, human serum based
- 3 year shelf life at -10°C to -70°C
- 30 day open-vial stability at 2–8°C
- Target CRP levels of 15, 90 and 200 mg/L



Analyte

CRP

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

▼ Ordering Information

Cat #	Liquichek™ Elevated CRP Control	Qty	Cat #	Liquichek™ Elevated CRP Control	Qty
254	Level 1	12 x 1 mL	256	Level 3	12 x 1 mL
255	Level 2	12 x 1 mL	255X	Trilevel MiniPak (1 of each level)	3 x 1 mL

Liquichek™ Rheumatoid Factor Control

A liquid trilevel control designed to monitor rheumatoid factor testing procedures, including nephelometric and latex agglutination methods.

- Liquid, human serum based
- Normal, slightly elevated and greatly elevated RF levels
- 2 year shelf life at -20°C to -70°C
- 30 day open-vial stability at 2–8°C



Analyte

Rheumatoid Factor

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

▼ Ordering Information

Cat #	Liquichek™ Rheumatoid Factor Control	Qty	Cat #	Liquichek™ Rheumatoid Factor Control	Qty
501	Level 1	6 x 2 mL	503	Level 3	6 x 2 mL
502	Level 2	6 x 2 mL	502X	Trilevel MiniPak (1 of each level)	3 x 2 mL



Liquichek™ Spinal Fluid Control

A liquid, bilevel product designed to monitor the performance of automated and manual procedures for the analysis of proteins and other critical analytes assayed in cerebrospinal fluid.

- Liquid
- Oligoclonal banding in Level 2
- 2 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C

Analytes

Albumin	Lactate
Chloride	(Lactic Acid)
Glucose	LDH
IgA	Protein
IgG	Electrophoresis*
IgM	Protein (Total)
	Sodium

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

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

▼ Ordering Information

Cat #	Liquichek™ Spinal Fluid Control	Quantity
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



Liquichek™ Autoimmune Controls

Individual controls for monitoring the performance of autoimmune assays using indirect immunofluorescence (IFA).

- Liquid, human serum based
- 2 year shelf life at 2–8°C
- 60 day open-vial stability at 2–8°C

Package Configuration

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

Refer to the package insert of currently available lots for specific analyte data.

▼ Ordering Information

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

Diabetes / Hemoglobin Controls



Quality Control Products

Liquichek™ Diabetes Control	46
Lyphochek® Diabetes Control	47
Lyphochek® Hemoglobin A1C Linearity Set	47
Lyphochek® Hemoglobin A ₂ Control	48
Meter Trax™ Control	48

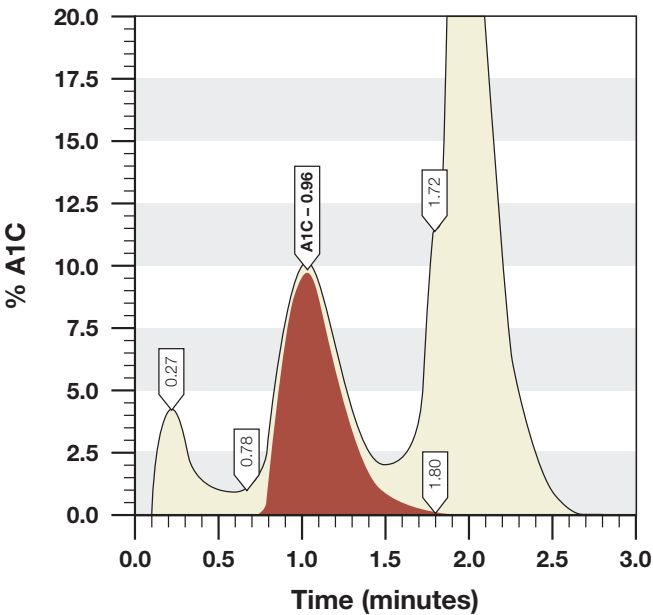
Supporting Charts

Target Values for Hemoglobin A1C	47
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Testing for Hemoglobin A1C Using Superior Quality Controls from Bio-Rad

A Hemoglobin A1C (HbA1C) result can provide a picture of a patient’s average blood glucose control for the past 2 to 3 months. Studies have shown that out-of-control diabetes may result in complications from the disease.

The goal for most adults with diabetes is generally to maintain an HbA1C of less than 7%. The higher the HbA1C, the higher the risks may be of developing complications related to diabetes. Using quality controls from Bio-Rad can help you greatly increase your confidence in delivering accurate patient test results.



Liquichek™ Diabetes Control

A liquid human whole blood based product designed to monitor the performance of hemoglobin tests associated with diabetes monitoring, including Hemoglobin A1C and Total Hemoglobin. Available in three critical levels.

- Liquid convenience
- 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
- Higher third level to monitor your assay range
- Three individual levels to fit your preference
- Value assignment listings for over 30 methods

Analytes

Hemoglobin A1C
Hemoglobin (Total)

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

Ordering Information

Cat #	Liquichek™ Diabetes Control	Quantity
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

Lyphochek® Diabetes Control

A human whole blood based product used to monitor hemoglobin fractions associated with diabetes, including Hemoglobins A₁, A1C, F and Total Glycated Hemoglobin.

- Human whole blood based control
- 3 year shelf life at 2–8°C
- 7 day open-vial stability at 2–8°C
- Extensive value assignment listings



Analytes

Hemoglobin A₁
Hemoglobin A1C
Hemoglobin F
Hemoglobin (Total Glycated)

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

▼ Ordering Information

Cat #	Lyphochek® Diabetes Control	Quantity
740	Bilevel (3 of each level)	6 x 0.5 mL
740X	Bilevel MiniPak (1 of each level)	2 x 0.5 mL



Lyphochek® Hemoglobin A1C Linearity Set

A human whole blood based product designed to verify linearity throughout the patient reportable range of Hemoglobin A1C assays.

- Human whole blood based control
- 4 significant levels
- 3 year shelf life at 2–8°C
- 7 day open-vial stability at 2–8°C
- Linearity Web™ software tool is available online at www.QCNet.com

Analyte

Hemoglobin A1C

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

Assayed values available for common analyzers:

Bio-Rad Analyzers

- D-10™
- Micromat™ II
- DiaSTAT™
- VARIANT™
- VARIANT™ II/Turbo

Other Analyzers

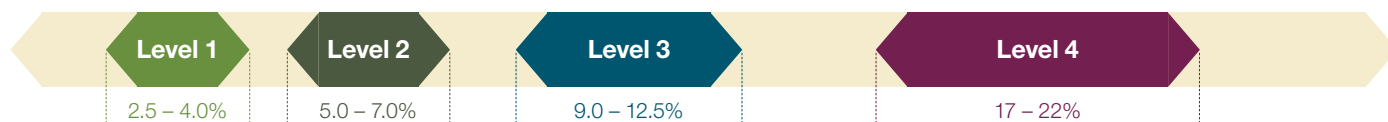
- Beckman Coulter® SYNCHRON® Systems
- Olympus® Systems
- Siemens ADVIA® 1650
- Siemens Dimension® Series
- Roche COBAS INTEGRA® & Hitachi® Systems
- Tosoh A1C 2.2 Plus & G7

▼ Ordering Information

Cat #	Lyphochek® Hemoglobin A1C Linearity Set	Quantity
120	Set (1 of each level)	4 x 0.5 mL

Target Values for Hemoglobin A1C

Ranges reflect typical recovery values for this product. Exact values may vary depending on methodology. Absolute values may also depend on the accuracy of the instruments/reagent system calibration (if applicable).





**Lyphochek®
Hemoglobin A₂ Control**

A human whole blood based product designed to monitor the performance of automated and manual procedures for the measurement of hemoglobin variants, including Hemoglobins A₂, F and S.

- Human whole blood based control
- Ideal for hemoglobin variant analysis
- 2 year shelf life at 2–8°C
- 21 day open-vial stability at 2–8°C

Analytes

Hemoglobin A₂
Hemoglobin F
Hemoglobin S

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

▼ **Ordering Information**

Cat #	Lyphochek® Hemoglobin A ₂ Control	Quantity
553	Bilevel (2 of each level) . . . . .	.4 x 1 mL
553X	Bilevel MiniPak (1 of each level) . . . . .	.2 x 1 mL



Meter Trax™ Control

A whole blood quality control that can be used for Glucose, Hemoglobin and Hematocrit testing on point-of-care instruments. This control can be used as part of a laboratory program to assess operator competence.

- Human whole blood based control
- 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

Analytes

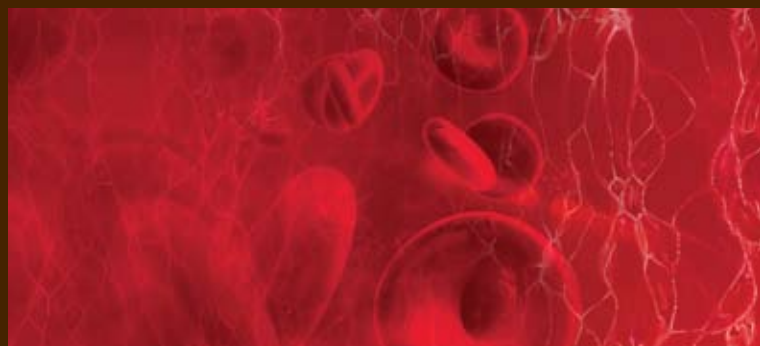
Glucose
Hematocrit
Hemoglobin (Total)

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

▼ **Ordering Information**

Cat #	Meter Trax™ Control	Quantity
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

Coagulation & Hematology Controls



Coagulation Controls

Lyphochek® Coagulation Control	50
Liquichek™ D-dimer Control	50
Lyphochek® Hemostasis Control	50

Hematology Controls

Liquichek™ Hematology Control (A)	51
Liquichek™ Reticulocyte Control (A)	51
Liquichek™ Hematology Control (C)	52
Liquichek™ Reticulocyte Control	52
Liquichek™ Hematology Control-16	53
Liquichek™ Hematology Control-16T	53
Liquichek™ Sedimentation Rate Control	54



Lyphochek® Coagulation Control

A human plasma control for monitoring the precision of routine coagulation tests. It has an extended reconstituted stability that helps reduce waste and save money.

- 3 year shelf life at 2–8°C
- 48 hour open-vial stability at 2–25°C
- Representative PT values in seconds and International Normalized Ratio (INR)
- Normal and abnormal levels PT, APTT, Fibrinogen, Antithrombin III and Thrombin Time

Analytes

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

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

For Use on a Variety of Systems

Siemens BCS® and Sysmex® CA, Diagnostica Stago STA®, Instrumentation Laboratory ACL® and ELECTRA®, Trinity Biotech AMAX

▼ Ordering Information

Cat #	Lyphochek® Coagulation Control	Qty	Cat #	Lyphochek® Coagulation Control	Qty
744	Level 1	12 x 1 mL	746	Level 3	12 x 1 mL
745	Level 2	12 x 1 mL	745X	Trilevel MiniPak (1 of each level)	3 x 1 mL



Liquichek™ D-dimer Control

Provides the laboratory with a liquid, trilevel, human plasma-based control for monitoring D-dimer testing on most automated coagulation, chemistry and immunoassay analyzers.

- 3 year shelf life at -20°C to -70°C, which allows for fewer crossover studies
- 15 day open-vial stability at 2–8°C

Analyte

D-dimer

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

For Use on a Variety of Systems

bioMérieux VIDAS®, Siemens BCS®, STRATUS CS™ and Sysmex® CA, Diagnostica Stago STA®, Instrumentation Laboratory ACL® Series, Roche COBAS INTEGRA® and Hitachi® Systems, Trinity Biotech AMAX

▼ Ordering Information

Cat #	Liquichek™ D-dimer Control	Qty	Cat #	Liquichek™ D-dimer Control	Qty
356	Level 1	6 x 1 mL	358	Level 3	6 x 1 mL
357	Level 2	6 x 1 mL	357X	Trilevel MiniPak (1 of each level)	3 x 1 mL

Lyphochek® Hemostasis Control

A multi-analyte control for monitoring coagulation factor assays and selected thrombosis risk assays. Assayed values available for most leading hemostasis analyzers.

- 3 year shelf life at 2–8°C
- 8 hour open-vial stability at 2–25°C (Protein S at 2–8°C)



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)

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

▼ Ordering Information

Cat #	Lyphochek® Hemostasis Control	Qty	Cat #	Lyphochek® Hemostasis Control	Qty
597	Level 1	12 x 1 mL	599	Level 3	12 x 1 mL
598	Level 2	12 x 1 mL	598X	Trilevel MiniPak (1 of each level)	3 x 1 mL



Liquichek™ Hematology Control (A)

An assayed hematology control for evaluating the performance of Abbott CELL-DYN® analyzers with 3- and 5-part differential technology.

- Assayed values for the Abbott CELL-DYN® 1300, 1600, 1700, 1800, 3000, 3200, 3500 and 3700 analyzers
- 120 day shelf life at 2–8°C
- 21 day open-vial stability at 2–8°C
- Values provided for WIC, WOC and NOC methods

Parameters

Basophils (BASO)	% Lymphocytes	Hematocrit (HCT)	Mean Platelet Volume (MPV)
% Basophils	Monocytes (MONO)	Mean Corpuscular Hemoglobin	Platelets (PLT)
Eosinophils (EOS)	% Monocytes	Concentration (MCHC)	Red Blood Cells (RBC)
% Eosinophils	Neutrophils (NEUT)	Mean Corpuscular Hemoglobin	Red Cell Distribution Width (RDW)
Granulocytes (GRAN)	% Neutrophils	(MCH)	White Blood Cells (WBC)
Lymphocytes (LYMPH)	Hemoglobin (Total)	Mean Corpuscular Volume (MCV)	

Refer to the package insert of currently available lots for specific parameter and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Hematology Control (A)	Quantity
900	Trilevel (4 of each level)	12 x 3 mL
901	Low . . . . .	.4 x 3 mL
902	Normal . . . . .	.4 x 3 mL
903	High . . . . .	.4 x 3 mL
900X	Trilevel MiniPak (1 of each level). . . . .	.3 x 3 mL

Liquichek™ Reticulocyte Control (A)

An assayed whole blood control for evaluating the precision of automated methods of reticulocyte counting.

- 110 day shelf life at 2–8°C
- 21 day open-vial stability at 2–8°C
- Assayed values for Abbott CELL-DYN® 3200, 3500, and 3700



Parameter

Reticulocyte Count

Refer to the package insert of currently available lots for specific parameter and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Reticulocyte Control (A)	Quantity
264	Level 1 . . . . .	.4 x 2 mL
265	Level 2 . . . . .	.4 x 2 mL
266	Level 3 . . . . .	.4 x 2 mL
265X	Trilevel MiniPak (1 of each level). . . . .	.3 x 2 mL



Liquichek™ Hematology Control (C)

An assayed hematology control for evaluating the performance of Beckman Coulter® hematology analyzers with complete CBC and VCS 5-part differential technology.

- Assayed values for the Coulter® STKS™, LH 500, LH 700, MAXM™, HmX, and GEN-S™ analyzers
- 105 day shelf life at 2–8°C
- 14 day open-vial stability at 2–8°C

Parameters

Basophils (BASO)	Monocytes (MONO)	Mean Corpuscular Hemoglobin Concentration (MCHC)	Platelets (PLT)
% Basophils	% Monocytes	Mean Corpuscular Hemoglobin (MCH)	Platelet Distribution Width (PDW)*
Eosinophils (EOS)	Neutrophils (NEUT)	Mean Corpuscular Volume (MCV)	Red Blood Cells (RBC)
% Eosinophils	% Neutrophils	Mean Platelet Volume (MPV)	Red Cell Distribution Width (RDW)
Lymphocytes (LYMPH)	Hemoglobin (Total)	Platelecrit (PCT)*	White Blood Cells (WBC)
% Lymphocytes	Hematocrit (HCT)		RDW-SD*

Refer to the package insert of currently available lots for specific parameter and stability claims.

* Values reported by analyzer are not for diagnostic use.

* For Beckman Coulter® LH only

▼ Ordering Information

Cat #	Liquichek™ Hematology Control (C)	Quantity
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

Liquichek™ Reticulocyte Control

A human whole blood based control designed to monitor the performance of automated Beckman Coulter® analyzers using VCS technology and New Methylene Blue stain.

- 31 day open-vial stability at 2–8°C
- 105 day shelf life at 2–8°C
- Three clinically significant levels available



Parameter

Reticulocyte Count

Refer to the package insert of currently available lots for specific parameter and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Reticulocyte Control	Quantity
516	Level 1 . . . . .	.4 x 1 mL
517	Level 2 . . . . .	.4 x 1 mL
518	Level 3 . . . . .	.4 x 1 mL
517X	Trilevel MiniPak (1 of each level). . . . .	.3 x 1 mL



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. This trilevel control can be used on either manual sampling or automatic cap-piercing instruments.

- 160 day shelf life at 2–8°C
- 21 day open-vial stability at 2–8°C
- Assayed for most 2–16 parameter instruments
- Stabilized human RBCs

Parameters

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

Refer to the package insert of currently available lots for specific parameter and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Hematology-16 Control	Quantity
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



Liquichek™ Hematology-16T Control

A hematology reference control used in monitoring determinations of blood cell values on Sysmex® cell counters.

- 160 day shelf life at 2–8°C
- 18 day open-vial stability at 2–8°C
- Assayed values for the Sysmex® K-1000, KX-21, and K-4500

Parameters

Hematocrit (HCT)	Mean Corpuscular Hemoglobin (MCH)	Mean Platelet Volume (MPV)	Platelets (PLT)
Hemoglobin (Total)	Mean Corpuscular Hemoglobin Concentration (MCHC)	Mixed Cell Percent (MXD)	Red Blood Cells (RBC)
Lymphocytes (LYMPH)	Mean Corpuscular Volume (MCV)	Neutrophils (NEUT)	Red Blood Cell Distribution Width (RDW)
% Lymphocytes		% Neutrophils	White Blood Cells (WBC)

Refer to the package insert of currently available lots for specific parameter and stability claims.

▼ Ordering Information

Cat #	Liquichek™ Hematology-16T Control	Quantity
150	Trilevel (4 of each level)	12 x 5 mL
150X	Trilevel MiniPak (1 of each level).	3 x 5 mL

Liquichek™ Sedimentation Rate Control

A bilevel human whole blood based control designed to monitor both manual and automated methods for measuring erythrocyte sedimentation rates.

- 31 day open-vial stability at 18–30°C
- 540 day shelf life at 18–30°C
- Assayed for over 20 automated and manual methods, including Westergren and Wintrobe



Parameter

Erythrocyte Sedimentation Rate (ESR)
Refer to the package insert of currently available lots for specific parameter and stability claims.

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

- BD Vacutainer® Seditainer™
 - Chase Disposable Westergren Tubes
 - Clinical Data Excyte™ M, 10, 40
 - Clinical Data Mini-Ves®
 - Clinical Data Ves-Matic® 20
 - DS Diagnostics Ves-Matic® 10
 - Vital Diagnostics MICROsed-System®
- Vital Diagnostics Monitor-S, J, J+
 - Fisherbrand Dispette 2
 - Greiner Bio-One SRS100/SRS20/SRT10
 - Linear Chemicals Eriline Analyzer
 - Linear Chemicals Lena Analyzer
 - Polymedco Sedimat® 60
 - Polymedco Sediplast
- RR Mechatronics StaRRsed
 - Iris® StatSpin® ESRA Analyzers
 - Iris® StatSpin® ESRA-10 System
 - Streck ESR-Auto Plus®
 - Terumo Europe Monitor V10/V20/V100
 - Westergren (Modified)
 - Wintrobe

▼ Ordering Information		
Cat #	Liquichek™ Sedimentation Rate Control	Quantity
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

Blood Gas Controls



Quality Control Products

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Liquichek™ Blood Gas Control

An aqueous product used to monitor the measurement of pH, pCO₂, and pO₂ in blood gas instrumentation.

- Available in three levels
- 4 year shelf life at 18–25°C
- Comprehensive list of instrument values
- Color coded for easy identification

Analytes

pCO₂
pH
pO₂

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

▼ Ordering Information

Cat #	Liquichek™ Blood Gas Control	Qty	Cat #	Liquichek™ Blood Gas Control	Qty
571	Level 1	30 x 1.7 mL	573	Level 3	30 x 1.7 mL
572	Level 2	30 x 1.7 mL	570X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL



Liquichek™ Blood Gas Plus E Control

An aqueous product used to monitor the measurement of pH, pCO₂, pO₂ and electrolytes.

- Clear matrix
- Available in four levels
- 4 year shelf life at 2–25°C
- Comprehensive list of instrument values
- Elevated pO₂ values in Level 4

Analytes

pCO₂
pH
pO₂
Calcium (Ionized)
Chloride
Potassium
Sodium

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

▼ Ordering Information

Cat #	Liquichek™ Blood Gas Plus E Control	Qty	Cat #	Liquichek™ Blood Gas Plus E Control	Qty
576	Level 1	30 x 1.7 mL	575X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL
577	Level 2	30 x 1.7 mL	574	Level 4	30 x 1.7 mL
578	Level 3	30 x 1.7 mL	574X	Level 4 MiniPak	3 x 1.7 mL

Liquichek™ Blood Gas Plus EGL Control

An aqueous product used to monitor the measurement of pH, pCO₂, pO₂, electrolytes, glucose and lactate (lactic acid).

- Clear matrix
- 3 year shelf life at 2–8°C
- May be stored for up to 12 months at 20–25°C



Analytes

pCO₂
pH
pO₂
Calcium (Ionized)
Chloride
Glucose
Lactate (Lactic Acid)
Lithium
Magnesium
Potassium
Sodium

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

▼ Ordering Information

Cat #	Liquichek™ Blood Gas Plus EGL Control	Qty	Cat #	Liquichek™ Blood Gas Plus EGL Control	Qty
511	Level 1	30 x 1.7 mL	513	Level 3	30 x 1.7 mL
512	Level 2	30 x 1.7 mL	510X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL

Liquichek™ Blood Gas Plus CO-Oximeter Control (Bayer 800 Series)

A combination control for use in monitoring the performance of blood gas, ion-selective electrode, biosensor and CO-Oximeter (Bayer 800 series) instrumentation.

- Aqueous matrix containing dyes
- Contains glucose and lactate
- 4 year shelf life at 2–8°C
- May be stored for up to 12 months at 20–25°C



Analytes

pCO ₂	Glucose
pH	Hemoglobin (Total)
pO ₂	Lactate (Lactic Acid)
Calcium (Ionized)	Methemoglobin
Carboxyhemoglobin	Oxyhemoglobin
Chloride	Potassium
Deoxyhemoglobin	Sodium

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

▼ Ordering Information

Cat #	CO-Oximeter (Bayer 800 Series)	Qty	Cat #	CO-Oximeter (Bayer 800 Series)	Qty
504	Level 1	30 x 1.7 mL	506	Level 3	30 x 1.7 mL
505	Level 2	30 x 1.7 mL	505X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL



Liquichek™ Blood Gas Plus CO-Oximeter Control (Radiometer)

A combination control for use in monitoring the performance of blood gas, ion-selective electrode, biosensor and CO-Oximeter (Radiometer) instrumentation.

- Aqueous matrix containing dyes
- Contains glucose and lactate
- 3 year shelf life at 2–8°C
- May be stored for up to 8 months at 20–25°C

Analytes

pCO ₂	Hemoglobin (Total)
pH	Lactate (Lactic Acid)
pO ₂	Methemoglobin
Calcium (Ionized)	Oxygen Saturation
Carboxyhemoglobin	Oxyhemoglobin
Chloride	Potassium
Glucose	Sodium
Hemoglobin (Reduced)	Volume Percent Oxygen

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

▼ Ordering Information

Cat #	CO-Oximeter (Radiometer)	Qty	Cat #	CO-Oximeter (Radiometer)	Qty
637	Level 1	30 x 2.5 mL	639	Level 3	30 x 2.5 mL
638	Level 2	30 x 2.5 mL	638X	Trilevel MiniPak (3 of each level)	9 x 2.5 mL

Liquichek™ Blood Gas Plus CO-Oximeter Control (IL)

A combination control for use in monitoring the performance of blood gas, ion-selective electrode, biosensor and CO-Oximeter (Instrumentation Laboratory) analyzers.

- Aqueous matrix containing dyes
- 3 year shelf life at 2–8°C
- May be stored for up to 12 months at 20–25°C



Analytes

pCO ₂	Lactate (Lactic Acid)
pH	Methemoglobin
pO ₂	Oxyhemoglobin
Calcium (Ionized)	Potassium
Carboxyhemoglobin	Sodium
Chloride	Volume Percent Oxygen
Glucose	Volume Percent Oxygen
Hemoglobin (Reduced)	Capacity
Hemoglobin (Total)	

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

▼ Ordering Information

Cat #	CO-Oximeter (IL)	Qty	Cat #	CO-Oximeter (IL)	Qty
621	Level 1	30 x 1.7 mL	623	Level 3	30 x 1.7 mL
622	Level 2	30 x 1.7 mL	622X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL



Liquichek™ Blood Gas Plus CO-Oximeter Control (IL Synthesis Series)

A combination control for use in monitoring the performance of blood gas, ion-selective electrode, biosensor and CO-Oximetry analysis on IL Synthesis Series instrumentation.

- Aqueous matrix containing dyes
- 3 year shelf life at 2–8°C
- May be stored for up to 6 months at 20–25°C

Analytes

pCO ₂	Hemoglobin (Reduced)
pH	Hemoglobin (Total)
pO ₂	Methemoglobin
Calcium (Ionized)	Oxygen Saturation
Carboxyhemoglobin	Oxyhemoglobin
Chloride	Potassium
Glucose	Sodium

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

▼ Ordering Information

Cat #	CO-Oximeter (IL Synthesis Series)	Qty	Cat #	CO-Oximeter (IL Synthesis Series)	Qty
667	Level 1	30 x 1.7 mL	669	Level 3	30 x 1.7 mL
668	Level 2	30 x 1.7 mL	668X	Trilevel MiniPak (3 of each level)	9 x 1.7 mL



Blood Gas Ampule Breaker

Designed to reduce the risk of injury when opening blood gas ampules.

- Protects hands from cuts
- Easy and convenient to use
- Reusable

▼ Ordering Information

Cat #	Product	Quantity
587	Blood Gas Ampule Breaker	1 Unit

Blood Gas Controls Analyte Chart

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

Analytes • Analyte Present	Blood Gas	Blood Gas Plus E	Blood Gas Plus EGL	Blood Gas Plus CO-Ox (Bayer 800)	Blood Gas Plus CO-Ox (Radiometer)	Blood Gas Plus CO-Ox (IL)	Blood Gas Plus CO-Ox (IL Synthesis)
Calcium (Ionized)		•	•	•	•	•	•
Carboxyhemoglobin				•	•	•	•
Chloride		•	•	•	•	•	•
Deoxyhemoglobin				•			
Glucose			•	•	•	•	•
Hemoglobin (Reduced)					•	•	•
Hemoglobin (Total)				•	•	•	•
Lactate (Lactic Acid)			•	•	•	•	
Lithium			•				
Magnesium			•				
Methemoglobin				•	•	•	•
Oxygen Saturation					•		•
Oxyhemoglobin				•	•	•	•
pCO ₂	•	•	•	•	•	•	•
pH	•	•	•	•	•	•	•
pO ₂	•	•	•	•	•	•	•
Potassium		•	•	•	•	•	•
Sodium		•	•	•	•	•	•
Volume Percent Oxygen					•	•	
Volume Percent Oxygen Capacity						•	

Drugs-of-Abuse Controls



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For the Unique Challenges of Monitoring Drugs-of-Abuse Test Procedures

Convenient, comprehensive, stable and unbiased quality controls.

When monitoring the precision of screening, semi-quantitative and confirmatory test procedures for drugs of abuse, each has its own unique challenges.

Different methodologies, regulations and guidelines call for quality control materials spiked with purified drugs or drug metabolites at different concentrations. No matter how you define a standard drug panel, or what concentrations you need, Bio-Rad has a control for you.

Choose from more than 20 different controls with analytes at appropriate concentrations for a wide range of screening and confirmatory methods.

Bio-Rad Drugs-of-Abuse Controls meet current SAMHSA* and other agency guidelines, and are human urine based with specimen validity criteria claims for pH, specific gravity and creatinine.

* United States Substance Abuse and Mental Health Services Administration



Liquichek™ Qualitative Urine Toxicology Control

A liquid control designed for use with qualitative urine drug screen panels, including Point-of-Care (POC) drugs-of-abuse test kits like Bio-Rad TOX/See™, Biosite Triage® and other popular test kits. The package insert includes qualitative results (+/-) for popular kits and recovery values by gas chromatography (GC) and other quantitative methods.

- Unbiased assessment of your test procedures
- Negative and positive levels
- Human urine based
- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–25°C

Analyte Target Values

Analytes	Negative (ng/mL)	Positive (ng/mL)
Catalog Number	454	455
Amphetamines		
d-Amphetamine	< 125	2,000
d-Methamphetamine	< 125	2,000
3, 4-Methylenedioxymethamphetamine (MDMA)	< 125	750
Barbiturates		
Secobarbital	< 80	1,000
Benzodiazepines		
Nordiazepam	< 50	3,000
Oxazepam	< 150	1,000
Cannabinoids		
11-nor-Δ-9-THC-9-COOH	< 3.75	150
Cocaine		
Benzoyllecgonine	< 30	4,000
Ethanol (mg/dL)	< 20	250
Lysergic Acid Diethylamide (LSD)	< 0.10	2.0
Methadone	< 100	750
Methaqualone	< 100	750
Opiates		
Morphine (Free)	< 300	3,000
Oxycodone	< 60	150
Phencyclidine (PCP)	< 5.0	250
Propoxyphene	< 150	750
Tricyclic Antidepressants		
Nortriptyline	< 10	2,000



▼ Ordering Information

Cat #	Liquichek™ Qualitative Urine Toxicology Control	Quantity
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

Liquichek™ Urine Toxicology Negative Control

Confirmed drug-free human urine for 32 of the most commonly abused drugs.

- 3 year shelf life at 2–8°C
- 60 day open-vial stability when stored refrigerated at 2–8°C
- Use with screening or confirmatory methods



▼ Ordering Information

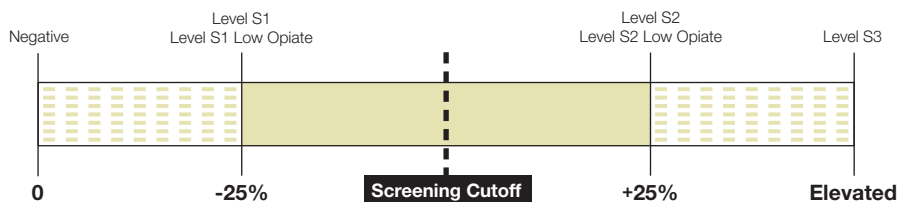
Cat #	Liquichek™ Urine Toxicology Negative Control	Quantity
460	Negative Control	10 x 20 mL
460X	MiniPak	1 x 20 mL

Refer to the package insert of currently available lots for specific analyte and stability claims and detection limits of methods used.

Liquichek™ Urine Toxicology Screen Controls

Controls for Use with FPIA/EIA Test Methods*

FPIA/EIA Screening Test Methods



* To determine which control best suits your assay requirements, please contact your local Bio-Rad office

Levels S1 Low Opiate, S2 Low Opiate and S3 are designed for use with the 300 ng/mL Opiate cutoff.

Levels S1 and S2 are designed for use with the 2,000 ng/mL Opiate cutoff.

Gravimetric Reference Values



Analytes	Level S1 (ng/mL)	Level S2 (ng/mL)	Level S1 (ng/mL) Low Opiate	Level S2 (ng/mL) Low Opiate	Level S3 (ng/mL)
Catalog Number	461	462	466	467	463
Amphetamines d-Amphetamine	750	1,250	750	1,250	2,000
Barbiturates Secobarbital	150	375	150	375	1,000
Benzodiazepines Nordiazepam	75	375	75	375	1,000
Cannabinoids* 11-nor-Δ-9-THC-9-COOH	37.5	65	37.5	65	125
Cocaine Benzoylecgonine	225	375	225	375	500
Ethanol (mg/dL)	40	70	40	70	250
Lysergic Acid Diethylamide (LSD)	0.3	0.8	0.3	0.8	2.0
Methadone	225	375	225	375	750
Methaqualone	225	375	225	375	750
Opiates Morphine (Free)	1,500	2,500	225	375	750
Phencyclidine (PCP)	19	31	19	31	200
Propoxyphene	225	375	225	375	750
Tricyclic Antidepressants Nortriptyline	750	1,250	750	1,250	2,000

* THC was added to the product until the desired value was obtained.



Liquichek™ Urine Toxicology Control, Levels S1 & S2

A human urine based control containing drugs of abuse at concentrations 20–25% above or below immunoassay screen cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 2,000 ng/mL Opiate cutoff

▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
461	Level S1	10 x 10 mL
462	Level S2	10 x 10 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL



Liquichek™ Urine Toxicology Control, Levels S1 Low Opiate & S2 Low Opiate

A human urine based control containing drugs of abuse at concentrations 20–25% above or below immunoassay screen cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 300 ng/mL Opiate cutoff

▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
466	Level S1 Low Opiate	10 x 10 mL
467	Level S2 Low Opiate	10 x 10 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Liquichek™ Urine Toxicology Control, Level S3

Elevated Levels

A human urine based control containing drugs of abuse at elevated levels for immunoassay screening procedures.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 300 ng/mL Opiate cutoff



▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
463	Level S3	10 x 10 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Refer to the package insert of currently available lots for specific analyte and stability claims

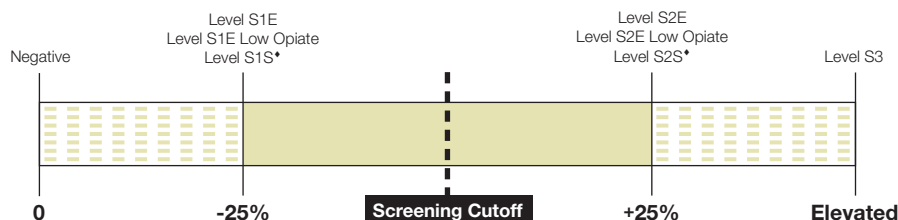
Ordering Outside the United States? Find your local Bio-Rad office on the inside back cover.

www.bio-rad.com/qualitycontrol **63**

Liquichek™ Urine Toxicology Screen Controls

Controls for Use with SYVA EMIT®/EIA Kits*

EIA Screening Test Methods



* To determine which control best suits your assay requirements, please contact your local Bio-Rad office

* Targeted based on SAMHSA's lower screen cutoff levels

Levels S1E and S2E are designed for use with the 2,000 ng/mL Opiate cutoff.

Levels S1E Low Opiate, S2E Low Opiate are designed for use with the 300 ng/mL Opiate cutoff.

Levels S1S and S2S are designed for use with the 2,000 ng/mL Opiate cutoff, 500 ng/mL Amphetamine and 150 ng/mL Cocaine cutoffs.

Gravimetric Reference Values

Analytes	Level S1S (ng/mL)	Level S2S (ng/mL)	Level S1E (ng/mL) Low Opiate	Level S2E (ng/mL) Low Opiate	Level S1E (ng/mL)	Level S2E (ng/mL)	Level S3 (ng/mL)
Catalog Number	409	419	423	424	438	439	463 (pg. 59)
Amphetamines							
d-Amphetamine	—	—	—	—	—	—	2,000
d-Methamphetamine	375	625	750	1,250	750	1,250	—
MDMA	375	625	—	—	—	—	—
Barbiturates							
Secobarbital	—	—	150	375	150	375	1,000
Benzodiazepines							
Lormetazepam	—	—	150	375	150	375	—
Nordiazepam	—	—	—	—	—	—	1,000
Cannabinoids*							
11-nor-Δ-9-THC-9-COOH	37.5	65	37.5	65	37.5	65	125
Cocaine							
Benzoyllecgonine	113	185	225	375	225	375	500
Ethanol (mg/dL)	—	—	40	70	40	70	250
Lysergic Acid Diethylamide (LSD)	—	—	0.3	0.8	0.3	0.8	2.0
Methadone	—	—	225	375	225	375	750
Methaqualone	—	—	225	375	225	375	750
Opiates							
Morphine (Free)	1,500	2,500	225	375	1,500	2,500	750
Phencyclidine (PCP)	19	31	19	31	19	31	200
Propoxyphene	—	—	225	375	225	375	750
Tricyclic Antidepressants							
Nortriptyline	—	—	750	1,250	750	1,250	2,000

*THC was added to the product until the desired value was obtained.



Liquichek™ Urine Toxicology Control, Levels S1S & S2S

A human urine based control containing six drugs of abuse at concentrations 20–25% above or below lower screen cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 2,000 ng/mL Opiate cutoff
- Targets 500 ng/mL Amphetamine and 150 ng/mL Cocaine cutoffs
- Includes MDMA

▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
409	Level S1S	10 x 10 mL
419	Level S2S	10 x 10 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Liquichek™ Urine Toxicology Control, Levels S1E Low Opiate & S2E Low Opiate

A human urine based control containing drugs of abuse at concentrations 20–25% above or below screen cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 300 ng/mL Opiate cutoff



▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
423	Level S1E Low Opiate	10 x 10 mL
424	Level S2E Low Opiate	10 x 10 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Liquichek™ Urine Toxicology Control, Levels S1E & S2E

A human urine based control containing drugs of abuse at concentrations 20–25% above or below screen cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 2,000 ng/mL Opiate cutoff



▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
438	Level S1E	10 x 10 mL
439	Level S2E	10 x 10 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

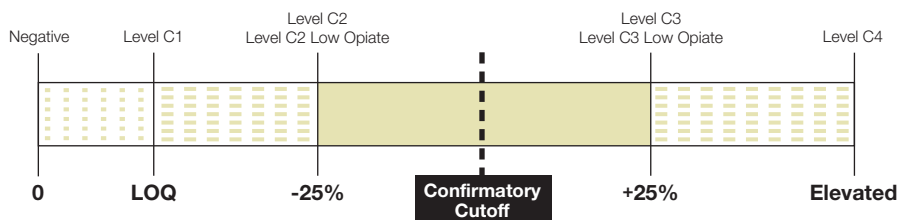
Refer to the package insert of currently available lots for specific analyte and stability claims

Liquichek™ Urine Toxicology Confirmatory Controls

Controls for Use with Confirmatory Test Methods

Confirmatory Test Methods

GC/MS, HPLC, LC/MS



Levels C1, C2 Low Opiate and C3 Low Opiate are designed for use with the 300 ng/mL Opiate cutoff.

Levels C2, C3 and C4 are designed for use with the 2,000 ng/mL Opiate cutoff.

Gravimetric Reference Values

Analytes	Level C1 (ng/mL)	Level C2 (ng/mL) Low Opiate	Level C3 (ng/mL) Low Opiate	Level C2 (ng/mL)	Level C3 (ng/mL)	Level C4 (ng/mL)
Catalog Number	441	468	469	442	443	444
Amphetamines						
d-Amphetamine	100	375	625	375	625	1,500
d-Methamphetamine	100	375	625	375	625	1,500
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
Barbiturates						
Amobarbital	80	150	250	150	250	1,200
Butalbital	80	150	250	150	250	1,200
Pentobarbital	80	150	250	150	250	1,200
Phenobarbital	80	150	250	150	250	1,200
Secobarbital	80	150	250	150	250	1,200
Benzodiazepines						
α-Hydroxylalprazolam	80	225	375	225	375	1,000
Nordiazepam	80	225	375	225	375	1,000
Oxazepam*	*	*	*	*	*	*
Cannabinoids*						
11-nor-Δ-9-THC-9-COOH	6	11.5	18.5	11.5	18.5	150
Cocaine						
Benzoylcegonine	40	115	185	115	185	1,000
Ethanol (mg/dL)	20	40	70	40	70	250
Lysergic Acid Diethylamide (LSD)	0.2	0.35	0.65	0.35	0.65	4.0
Methadone						
Methadone	120	225	375	225	375	1,000
EDDP (Methadone Metabolite)*	*	*	*	*	*	*
Methaqualone	120	225	375	225	375	1,000
Opiates						
6-Monoacetylmorphine*	*	*	*	*	*	*
Codeine	120	225	375	1,500	2,500	4,000
Morphine-3-β-d-Glucuronide	120	225	375	1,500	2,500	4,000
Phencyclidine (PCP)	10	19	31	19	31	100
Propoxyphenes						
Propoxyphene	120	225	375	225	375	1,000
Norpropoxyphene	120	225	375	225	375	1,000

* THC was added to the product until the desired value was obtained.

* Analyte present, no claims made regarding performance or stability.



Liquichek™ Urine Toxicology Control, Level C1

A human urine based control containing drugs of abuse at very low levels or at the Limits of Quantitation (LOQ) for confirmatory test methods.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 300 ng/mL Opiate cutoff

▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
441	Level C1	10 x 20 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Liquichek™ Urine Toxicology Control, Levels C2 Low Opiate & C3 Low Opiate

A human urine based control containing drugs of abuse at concentrations 20–25% above or below confirmatory cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 300 ng/mL Opiate cutoff



▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
468	Level C2 Low Opiate	10 x 20 mL
469	Level C3 Low Opiate	10 x 20 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL



Liquichek™ Urine Toxicology Control, Levels C2 & C3

A human urine based control containing drugs of abuse at concentrations 20–25% above or below confirmatory cutoff levels.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 2,000 ng/mL Opiate cutoff

▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
442	Level C2	10 x 20 mL
443	Level C3	10 x 20 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Refer to the package insert of currently available lots for specific analyte and stability claims

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www.bio-rad.com/qualitycontrol



Liquichek™ Urine Toxicology Control, Level C4

Elevated Levels

A human urine based control containing drugs of abuse at elevated levels for monitoring confirmatory testing methods.

- 3 year shelf life at 2–8°C
- 30 day open-vial stability at 2–8°C
- 2,000 ng/mL Opiate cutoff

▼ Ordering Information

MiniPaks also available

Cat #	Liquichek™ Urine Toxicology Control	Quantity
444	Level C4	10 x 20 mL
460	Negative Control (refer to pg. 61).	10 x 20 mL

Lyphocheck® Urine Toxicology Control

Contains drugs of abuse at levels that show positive results on TOXI-LAB® and other thin-layer chromatography systems.

- Human urine based
- 3 year shelf life at 2–8°C
- 10 day open-vial stability at 2–8°C or 30 day open-vial stability at -10°C to -20°C



Analytes

11-Nor-Δ-9-THC-9-COOH	Methadone
Acetaminophen	Methaqualone
Benzoylcegonine	Morphine (Free)
Codeine	Oxazepam
d-Amphetamine	Phencyclidine (PCP)
Glutethimide*	Phenobarbital
Imipramine	Propoxyphene*
Meperidine*	Secobarbital

* No claim is made for expected values or stability.

▼ Ordering Information

Cat #	Lyphocheck® Urine Toxicology Control	Quantity
C-470-25	Single Level.	10 x 25 mL

Specialty Controls



Liquichek™ Whole Blood Volatiles Control.	70
Liquichek™ Serum Volatiles Control.	70
Lyphocheck® Endocrine Control	70
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Lyphocheck® Urine Bone Markers Control.	72
Lyphocheck® Whole Blood Control	72
Lyphocheck® Benzo/TCA Control–Set A.	73
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Lyphocheck® Drug Free Serum	74



Liquichek™ Whole Blood Volatiles Control

An assayed liquid toxicology control for monitoring the precision of volatile compounds. Available in 2 levels.

- Liquid, ready to use
- Human blood based
- 2 year shelf life at 2–8°C
- 5 day open-vial stability at 2–8°C

Analytes

Acetone
Ethanol
Isopropanol
Lead
Methanol

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

▼ Ordering Information

Product may be temporarily unavailable. Please contact your local Bio-Rad representative or Technical Services for availability.

Cat #	Liquichek™ Whole Blood Volatiles Control	Quantity
305	Bilevel (6 of each level)	12 x 3 mL
305X	Bilevel MiniPak (1 of each level)	3 x 3 mL

Liquichek™ Serum Volatiles Control

A bilevel liquid control with assayed values for the most widely measured volatile compounds.

- Liquid, ready to use
- Human serum based
- 3 year shelf life at 2–8°C
- 10 day open-vial stability at 2–8°C



Analytes

Acetone
Ethanol
Ethylene Glycol
Isopropanol
Methanol

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

▼ Ordering Information

Cat #	Liquichek™ Serum Volatiles Control	Quantity
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

Lyphocheck® Endocrine Control

A human serum based control designed to monitor the precision of plasma catecholamine testing procedures, including by HPLC. The analytes are spiked at critical concentrations to cover the dynamic range of the assays.

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



Analytes

Dopamine
Epinephrine
Norepinephrine

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

▼ Ordering Information

Cat #	Lyphocheck® Endocrine Control	Quantity
535	Bilevel (6 of each level)	12 x 10 mL
535X	Bilevel MiniPak (1 of each level) . . . . .	.2 x 10 mL



Lyphocheck® Urine Metals Control

Incorporates two levels ideal for environmental and industrial testing.

- Human urine based
- Contains critical trace elements, heavy metals and organic metabolites
- 3 year shelf life at 2–8°C
- 5 day reconstituted stability at 2–8°C
- Use with Atomic Absorption (AA), GC-MS, HPLC and ICP

Analytes

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

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

▼ Ordering Information

Cat #	Lyphocheck® Urine Metals Control	Quantity
400	Level 1	10 x 25 mL
405	Level 2	10 x 25 mL

Lyphocheck® Whole Blood Metals Control

Contains the major heavy metals of toxicological and environmental importance for whole blood analysis.

- Human whole blood based
- 3 year shelf life at 2–8°C
- 14 day reconstituted stability at 2–8°C
- Assayed Lead values for AA, ASV, ICP-MS and IDMS



Analytes

Arsenic
Cadmium
Lead
Mercury
Thallium

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

▼ Ordering Information

Cat #	Lyphocheck® Whole Blood Metals Control	Quantity
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

Lyphochek®
Urine Bone Markers
Control

A bilevel human urine based control designed to monitor the precision of tests for urinary markers of osteoporosis management and bone resorption.

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



Analytes

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

* No claims are made for expected values or stability.

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

▼ Ordering Information

Cat #	Lyphochek® Urine Bone Markers Control	Quantity
406	Bilevel (3 of each level) . . . . .	.6 x 2 mL
406X	Bilevel MiniPak (1 of each level) . . . . .	.2 x 2 mL

Lyphochek®
Whole Blood Control

Designed to monitor the precision of red cell folate and lead in whole blood assays. This control is assayed at three critical levels.

- Human whole blood based
- 3 year shelf life at 2–8°C
- Lead assay values for Atomic Absorption (AA), Anodic Stripping Voltammetry (ASV) and Isotope Dilution Mass Spectroscopy (IDMS)



Analytes

Lead
Red Cell Folate
Serotonin*

* No claims are made regarding performance or stability.

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

▼ Ordering Information

Cat #	Lyphochek® Whole Blood Control	Quantity
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

Lyphochek® Benzo/TCA Control–Set A

Ideal for monitoring the precision of HPLC methods for identification and quantitation of benzodiazepines and tricyclic antidepressant drugs.

- Human serum based
- 3 year shelf life at 2–8°C
- 30 day reconstituted stability at 2–8°C



Analytes

Amitriptyline
Chlordiazepoxide
Desalkylflurazepam
Desipramine
Diazepam
Doxepin
Imipramine
Nordiazepam
Nordoxepin
Nortriptyline
Oxazepam

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

▼ Ordering Information

Cat #	Lyphochek® Benzo/TCA Control–Set A	Quantity
661	Level 1 . . . . .	.6 x 5 mL
662	Level 2 . . . . .	.6 x 5 mL
660X	Bilevel MiniPak (1 of each level) . . . . .	.2 x 5 mL

Lyphochek® Benzo/TCA Control–Set B

Ideal for monitoring the precision of HPLC methods for identification and quantitation of benzodiazepines and antidepressant drugs.

- Human serum based
- 3 year shelf life at 2–8°C
- 14 day reconstituted stability at 2–8°C



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 the package insert of currently available lots for specific analyte and stability claims.

▼ Ordering Information

Cat #	Lyphochek® Benzo/TCA Control–Set B	Quantity
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



Lyphochek® Drug Free Serum

A lyophilized, serum control tested negative for more than 60 therapeutic drugs and illicit compounds.

- Drug-free baseline reference includes HPLC analysis and other methods
- For use as a negative control
- 3 year shelf life at 2–8°C
- 10 day reconstituted stability at 2–8°C

Analytes

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

Refer to the package insert of currently available lots for specific analyte and stability claims, detection limits of methods used, and supported instruments.

* No claim is made for expected values or stability.

▼ Ordering Information

Cat #	Lyphochek® Drug Free Serum	Quantity
456	Single Level	12 x 10 mL
456X	MiniPak	1 x 10 mL

Molecular Controls



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AmpliTrol™ CT/GC

For use as an unassayed quality control in nucleic acid amplification assays detecting *Chlamydia trachomatis* and *Neisseria gonorrhoeae*.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analytes

Chlamydia trachomatis
Neisseria gonorrhoeae

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	AmpliTrol™ CT/GC	Quantity
00126	Single Level/Dropper Bottle	1 x 5 mL

GonoPROBE™

For use as an unassayed quality control in Gen-Probe® PACE® 2 test systems detecting *Neisseria gonorrhoeae*.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analyte

Neisseria gonorrhoeae

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	GonoPROBE™	Quantity
00123	Single Level/Dropper Bottle	1 x 5 mL

ChlamydiaPROBE™

For use as an unassayed quality assurance reagent in Gen-Probe® test systems detecting *Chlamydia trachomatis*.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analyte

Chlamydia trachomatis

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	ChlamydiaPROBE™	Quantity
00122	Single Level/Dropper Bottle	1 x 5 mL



AmpliPROBE™ CT/GC

For use as an unassayed quality control in the Gen-Probe® APTIMA Combo 2® test system for detecting *Chlamydia trachomatis* and *Neisseria gonorrhoeae*.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analytes

Chlamydia trachomatis
Neisseria gonorrhoeae

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	AmpliPROBE™ CT/GC	Quantity
00138	Single Level/Dropper Bottle	1 x 5 mL

Amplichek™ CT/GC Controls

Liquid controls designed to monitor the precision of test procedures that detect *Chlamydia trachomatis* and *Neisseria gonorrhoeae*. Since they are specimen specific, they can be used with either urine or endocervical/urethral swabs throughout the entire procedure, including extraction, amplification and detection.

- Similar to urine and endocervical/urethral swab patient samples
- Meets CLIA guidelines for molecular controls*
- 60 day open-vial stability at 2–8°C
- 3 year shelf life at 2–8°C

* CLIA 42 CFR Part 493 Final Rule, effective April 24, 2003.



Analytes

Chlamydia trachomatis
Neisseria gonorrhoeae

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

CT/GC Test Chart

Test	Swab Non-Amplified Positive	Swab Amplified Positive	Swab Negative	Urine Positive	Urine Negative
Roche COBAS Amplicor™		•	•	•	•
BD ProbeTec™		•	•	•	•
Gen-Probe® PACE® 2C	•		•		
Gen-Probe® Aptima® Combo 2		•	•	•	•
Digene Hybrid Capture® 2		•	•		

▼ Ordering Information

Cat #	Amplichek™ CT/GC Controls	Quantity
132	Swab, Negative . . . . .	.2 x 2 mL
133	Swab, Amplified Positive . . . . .	.2 x 2 mL
133X	Swab, Amplified, Bilevel MiniPak . . . . .	.2 x 2 mL
134	Swab, Non-Amplified Positive . . . . .	.2 x 2 mL
134X	Swab, Non-Amplified, Bilevel MiniPak. . . . .	.2 x 2 mL
135	Urine, Negative . . . . .	.4 x 10 mL
136	Urine, Positive . . . . .	.4 x 10 mL
136X	Urine, Bilevel MiniPak . . . . .	.2 x 10 mL

AmpliClear™

For use as an unassayed, non-reactive quality control in nucleic acid amplification assays detecting *Chlamydia trachomatis* and *Neisseria gonorrhoeae*.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analytes

Non-reactive for:
Chlamydia trachomatis
Neisseria gonorrhoeae

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	AmpliClear™	Quantity
00127	Single Level/Dropper Bottle	1 x 5 mL



AmpliTrol™ HPV

For use as an unassayed quality control in the Digene Hybrid Capture® 2 high-risk HPV DNA test system detecting Human papillomavirus.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analyte

Human papillomavirus

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	AmpliTrol™ HPV	Quantity
00139	Single Level/Dropper Bottle	1 x 5 mL

AmpliTrol™ III

For use as a positive unassayed control with qualitative assay procedures for the detection of Human Immunodeficiency Virus Type 1 (HIV-1), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV) nucleic acids in human serum, or plasma from donations of whole blood and blood components for transfusion.

- Multi-analyte control
- Liquid convenience
- Human serum based
- Choice of fill size: 1 mL single use or 5 mL with 60 day open-vial stability at 2–8°C
- 10 month shelf life at 2–8°C for both fill sizes
- Controls the entire process, including sample preparation and amplification steps



Analytes

HIV-1
HBV
HCV

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	AmpliTrol™ III	Quantity
00140	Single Level/Vial . . . . .	.40 x 1 mL
00141	Single Level/Dropper Bottle	1 x 5 mL

Infectious Disease Controls



Hepatitis & Retrovirus

VIROTROL® I	80
VIROTROL® II	80
VIROTROL® III	80
VIROTROL® IV	81
VIROTROL® HIV-2	81
VIROCLEAR®	81
VIROTROL® HIV-1 Ag	82
Assayed VIROTROL® II-A	82
Assayed VIROTROL® II-B	82
VIROTROL® HAV IgM	83
VIROTROL® HBc IgM	83
VIROTROL® HBeAg	83

Sexually Transmitted Diseases

VIROTROL® Syphilis Total.	87
VIROTROL® RPR Panel.	87

Congenital Diseases

VIROTROL® ToRCH	84
VIROTROL® ToRCH-M	84
VIROCLEAR® ToRCH	84
Liquichek™ ToRCH Plus Control	85
Liquichek™ ToRCH Plus IgM Control	85
VIROTROL® MuMZ™	86
VIROCLEAR® MuMZ™	86

Specialty Infectious Disease

VIROTROL® EBV	88
VIROCLEAR® EBV	88
PneumoTrol™	88
PyloriTrol™	89
CryptoTrol™	89
CryptoTrol™ LX	89
VIROTROL® Chagas	90
VIROTROL® Lyme	90
VIROTROL® WNV	90



VIROTROL® I

For use as an unassayed quality control with assays detecting Hepatitis B Surface Antigen, antibodies to Human Immunodeficiency Virus Type 1, antibodies to Human T-Lymphotropic Virus Type I, antibodies to Hepatitis B core Antigen, antibodies to Hepatitis C Virus and antibodies to Cytomegalovirus.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C

Analytes

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

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® I	Quantity
00100	Single Level/Dropper Bottle	1 x 5 mL
00101	Single Level/Tube	10 x 4 mL
00102	Single Level/Dropper Bottle	2 x 20 mL

VIROTROL® II

For use as an unassayed quality control with assays detecting antibodies to Hepatitis B surface Antigen and antibodies to Hepatitis A Virus.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C



Analytes

Anti-HBs
Anti-HAV

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® II	Qty	Cat #	Qty	
00104	Single Level/Dropper Bottle.	1 x 5 mL	00115	Single Level/Tube	10 x 4 mL

VIROTROL® III

For use as an unassayed quality control with assays detecting Hepatitis B envelope Antigen, IgM antibodies to Hepatitis B core Antigen, IgM antibodies to Hepatitis A Virus, and total antibodies to Hepatitis A Virus.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C



Analytes

HBeAg
HBc IgM
HAV IgM
Anti-HAV

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® III	Quantity
00110	Single Level/Dropper Bottle	1 x 5 mL



VIROTROL® IV

For use as an unassayed quality control with assays detecting antibodies to Hepatitis B envelope Antigen.

- Human serum based
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C

Analyte

Anti-HBe

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® IV	Quantity
00111	Single Level/Dropper Bottle . . . . .	.1 x 5 mL

VIROTROL® HIV-2

For use as an unassayed quality control with assays detecting antibodies to Human Immunodeficiency Virus Type 2.

- Human serum based
- Single analyte control
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C



Analyte

Anti-HIV-2

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® HIV-2	Quantity
00105	Single Level/Dropper Bottle . . . . .	.1 x 5 mL



VIROCLEAR®

For use as an unassayed, non-reactive quality control. Non-reactive for commonly tested analytes for Hepatitis, Retrovirus, Syphilis and antibodies to CMV.

- Human serum based
- Non-reactive for multiple analytes to allow for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C

Analytes

Non-reactive for:

HBsAg	Anti-HBe
HBeAg	Anti-HCV
HBc IgM	Anti-HAV
HAV IgM	Anti-HDV
Anti-HIV-1	Anti-CMV
Anti-HIV-2	Non-treponemal Antibodies (Syphilitic Reagin)
Anti-HTLV-I	<i>Treponema pallidum</i> IgG
Anti-HTLV-II	<i>Treponema pallidum</i> IgM
Anti-HBs	
Anti-HBc	

Refer to the package insert for performance and stability claims

▼ Ordering Information

Cat #	VIROCLEAR®	Quantity
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



VIROTROL® HIV-1 Ag

For use as an unassayed quality control with assays detecting antigens of Human Immunodeficiency Virus Type 1.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analyte

HIV-1 Ag

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Available outside the United States only

Cat #	VIROTROL® HIV-1 Ag	Quantity
00108	Single Level/Dropper Bottle	1 x 5 mL

Assayed VIROTROL® II-A

For use as an assayed quality control with assays detecting antibodies to Hepatitis B surface Antigen and total antibodies to Hepatitis A Virus.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C



Analytes

Anti-HBs
Anti-HAV

Refer to the package insert for performance and stability claims.

For Use on Abbott AxSYM®

For use on additional test methods, contact your local Bio-Rad representative.

▼ Ordering Information

Available outside the United States only

Cat #	Assayed VIROTROL® II-A	Quantity
00150	Single Level/Dropper Bottle	1 x 5 mL

Assayed VIROTROL® II-B

For use as an assayed quality control with assays detecting antibodies to Hepatitis B surface Antigen and total antibodies to Hepatitis A Virus.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C



Analytes

Anti-HBs
Anti-HAV

Refer to the package insert for performance and stability claims.

For Use on a Variety of Systems

Abbott Architect™, Siemens Centaur®, Roche Elecsys®

▼ Ordering Information

Available outside the United States only

Cat #	Assayed VIROTROL® II-B	Quantity
00152	Single Level/Dropper Bottle	1 x 5 mL



VIROTROL® HAV IgM

For use as an unassayed quality control with assays detecting Immunoglobulin M (IgM) antibodies to Hepatitis A Virus.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analyte

HAV IgM

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® HAV IgM	Quantity
00142	Single Level/Dropper Bottle	1 x 5 mL

VIROTROL® HBc IgM

For use as an unassayed quality control with assays detecting immunoglobulin M (IgM) antibodies to Hepatitis B core Antigen.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analyte

HBc IgM

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® HBc IgM	Quantity
00143	Single Level/Dropper Bottle	1 x 5 mL

VIROTROL® HBsAg

For use as an unassayed quality control with assays detecting Hepatitis B envelope Antigen.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analyte

HBsAg

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® HBsAg	Quantity
00144	Single Level/Dropper Bottle	1 x 5 mL



VIROTROL® ToRCH

For use as an unassayed quality control with assays detecting IgG antibodies to *Toxoplasma gondii*, IgG antibodies to Rubella Virus, IgG antibodies to Cytomegalovirus and IgG antibodies to Herpes Simplex Virus Types 1 and 2.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C

Analytes

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

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® ToRCH	Quantity
00109	Single Level/Dropper Bottle	1 x 5 mL

VIROTROL® ToRCH-M

For use as an unassayed quality control with assays detecting IgG and IgM antibodies to *Toxoplasma gondii*, IgG and IgM antibodies to Rubella Virus, IgG and IgM antibodies to Cytomegalovirus, and IgG antibodies to Herpes Simplex Virus Types 1 and 2.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analytes

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

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® ToRCH-M	Quantity
00117	Single Level/Dropper Bottle	1 x 5 mL

VIROCLEAR® ToRCH

For use as an unassayed, non-reactive quality control with assays detecting IgG and IgM antibodies to *Toxoplasma gondii*, IgG and IgM antibodies to Rubella Virus, IgG and IgM antibodies to Cytomegalovirus, and IgG and IgM antibodies to Herpes Simplex Virus Types 1 and 2.

- Human serum based
- Multi-analyte control allows for product consolidation
- Convenient liquid formulation eliminates potential reconstitution variability
- 60 day open-vial stability at 2–8°C



Analytes

Non-reactive for:

Toxoplasma gondii IgG
Toxoplasma gondii IgM
 Rubella IgG
 Rubella IgM
 Cytomegalovirus IgG
 Cytomegalovirus 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

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROCLEAR® ToRCH	Quantity
00118	Single Level/Dropper Bottle	1 x 5 mL



Liquichek™ ToRCH Plus Control

A bilevel, liquid control used to monitor the performance of the most widely used serology instruments and methods. A positive and a negative control allow you to monitor the performance of your test system at the critical decision making levels.

- Liquid, human serum based
- 60 day open-vial stability at 2-8°C
- 3 year shelf life at 2-8°C
- Positive and negative controls packaged separately

Analytes

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

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

▼ Ordering Information

Cat #	Liquichek™ ToRCH Plus Control	Quantity
239	Positive . . . . .	.3 x 3 mL
239X	Positive MiniPak . . . . .	.1 x 3 mL
227	Positive, Assayed (available outside the United States only) . . . . .	.3 x 3 mL
227X	Positive, Assayed MiniPak (available outside the United States only). . . . .	.1 x 3 mL
228	Negative . . . . .	.3 x 3 mL
228X	Negative MiniPak . . . . .	.1 x 3 mL

Liquichek™ ToRCH Plus IgM Control

A bilevel, unassayed liquid control used to monitor the performance of immunoassay methods to detect IgM antibodies to ToRCH panel analytes.

- Liquid
- Positive and negative controls packaged separately
- 3 year shelf life when stored at -20°C to -70°C
- 60 day open-vial stability at 2-8°C



Analytes

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

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

▼ Ordering Information

Cat #	Liquichek™ ToRCH Plus IgM Control	Quantity
229	Positive . . . . .	.3 x 2 mL
229PX	Positive MiniPak . . . . .	.1 x 2 mL
230	Negative . . . . .	.3 x 2 mL
230NX	Negative MiniPak . . . . .	.1 x 2 mL



VIROTROL® MuMZ™

For use as an unassayed quality control with assays detecting IgG antibodies to Mumps Virus, IgG antibodies to Rubeola Virus (Measles) and IgG antibodies to Varicella Zoster Virus.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analytes

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

Refer to the package insert for performance and stability claims.

▼ **Ordering Information**

Cat #	VIROTROL® MuMZ	Quantity
00119	Single Level/Dropper Bottle	1 x 5 mL

VIROCLEAR® MuMZ™

An unassayed, non-reactive quality control for use with assays detecting Immunoglobulin G antibodies to Mumps, Rubeola (Measles) and Varicella Zoster Virus.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analytes

Non-reactive for:
Mumps Virus IgG
Rubeola Virus (Measles) IgG
Varicella Zoster Virus (VZV) IgG

Refer to the package insert for performance and stability claims.

▼ **Ordering Information**

Cat #	VIROCLEAR® MuMZ	Quantity
00133	Single Level/Dropper Bottle	1 x 5 mL



VIROTROL® Syphilis Total

For use as an unassayed quality control with assays detecting Immunoglobulin G and Immunoglobulin M antibodies to *Treponema pallidum* and non-treponemal antibodies.

- Human serum based
- 60 day open-vial stability at 2–8°C
- Convenient liquid formulation eliminates potential reconstitution variability

Analytes

Non-treponemal Antibodies
(Syphilitic Reagin)
Treponema pallidum IgG
Treponema pallidum IgM

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® Syphilis Total	Quantity
00124	Single Level/Dropper Bottle	1 x 5 mL

VIROTROL® RPR Panel

For use as an unassayed quality control with assays used for the qualitative detection of non-treponemal antibodies. The VIROTROL® RPR Panel consists of one non-reactive member, one minimally reactive member, and one moderately to highly reactive titerable member.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analyte

Non-treponemal Antibodies
(Syphilitic Reagin)

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® RPR Panel	Quantity
01400	Three Levels/Vial	3 x 1.5 mL



VIROTROL® EBV

For use as an unassayed quality control with assays detecting IgG and IgM antibodies to the viral capsid antigen of Epstein-Barr virus and IgG antibodies to Epstein-Barr virus nuclear antigen.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analytes

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

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® EBV	Quantity
00128	Single Level/Dropper Bottle	1 x 5 mL

VIROCLEAR® EBV

For use as an unassayed, non-reactive quality control with assays detecting IgG and IgM antibodies to the viral capsid antigen of Epstein-Barr Virus, IgG antibodies to early antigen and IgG antibodies to the viral polypeptide nuclear antigen of Epstein-Barr Virus.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analytes

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

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROCLEAR® EBV	Quantity
00131	Single Level/Dropper Bottle	1 x 5 mL

PneumoTrol™

For use as an unassayed quality control with assays detecting IgG and IgM antibodies to *Mycoplasma pneumoniae* and IgG antibodies to *Chlamydia* species.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analytes

Mycoplasma pneumoniae IgG
Mycoplasma pneumoniae IgM
Chlamydia trachomatis IgG

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	PneumoTrol™	Quantity
00129	Single Level/Dropper Bottle	1 x 5 mL



PyloriTrol™

For use as an unassayed quality control with assays detecting IgG antibodies to *Helicobacter pylori*.

- Human serum based
- 60 day open-vial stability at 2–8°C

Analyte

Helicobacter pylori IgG

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	PyloriTrol™	Quantity
00121	Single Level/Dropper Bottle	1 x 5 mL

CryptoTrol™

For use as an unassayed quality control with assays detecting capsular polysaccharide antigens of *Cryptococcus neoformans*.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analyte

Cryptococcus neoformans Ag

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	CryptoTrol™	Quantity
00134	Single Level/Dropper Bottle	1 x 5 mL

CryptoTrol™ LX

For use as an unassayed quality control in enzyme immunoassay and latex agglutination based test systems for qualitative and semi-quantitative detection of capsular polysaccharide antigens of *Cryptococcus neoformans*.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analyte

Cryptococcus neoformans Ag

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	CryptoTrol LX™	Quantity
00135	Single Level/Dropper Bottle	1 x 5 mL



VIROTROL® Chagas

An unassayed, reactive quality control for use with assays for the qualitative detection of antibodies to *Trypanosoma cruzi* (*T. cruzi*) in human serum or plasma. *T. cruzi* is characteristically associated with Chagas disease.

- Human serum based
- Liquid stable, ready to use
- 2 year shelf life at 2–8°C
- 60 day open-vial stability at 2–8°C

Analyte

Trypanosoma cruzi (*T. cruzi*)

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® Chagas	Quantity
00125	Single Level/Tube . . . . .	.5 x 4 mL
00125X	Single Level MiniPak . . . . .	.1 x 4 mL

VIROTROL® Lyme

For use as an unassayed quality control with assays detecting Immunoglobulin G antibodies to *Borrelia burgdorferi*.

- Human serum based
- 60 day open-vial stability at 2–8°C
- Convenient liquid formulation eliminates potential reconstitution variability



Analyte

Borrelia burgdorferi IgG

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® Lyme	Quantity
00132	Single Level/Dropper Bottle . . . . .	.1 x 5 mL

VIROTROL® WNV

An unassayed quality control for use with assays detecting Immunoglobulin G and Immunoglobulin M antibodies to West Nile Virus.

- Human serum based
- 60 day open-vial stability at 2–8°C



Analytes

West Nile Virus IgG
West Nile Virus IgM

Refer to the package insert for performance and stability claims.

▼ Ordering Information

Cat #	VIROTROL® WNV	Quantity
00116	Single Level/Dropper Bottle1 x 5 mL

External Quality Assurance Services (EQAS)



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Get a More Complete Picture of Your Laboratory's Performance with Our EQAS Programs

External quality assessment programs are accepted around the world as invaluable tools used by laboratories to assess the performance of their test systems. When used in conjunction with daily quality controls, they can provide the laboratory with a more complete picture of their assay performance, and increase confidence in reporting their patient test results.

Participation in an external quality assessment program is an important part of the laboratory's overall quality system, providing a mechanism to identify potential areas for improvement and educational opportunities. Enrollment in an external quality assessment program is increasingly becoming an essential part of the laboratory accreditation process.

EQAS samples are tested every 2-4 weeks, depending on the program. Results are submitted to Bio-Rad and objectively compared to other laboratories using the same methodologies, instruments and reagents. A sophisticated method coding system allows accurate and meaningful peer group comparisons. With over 95 participating countries worldwide, EQAS offers a large international database.

Several comprehensive programs are available with extensive analyte menus for clinical chemistry (serum and urine), therapeutic drug monitoring, immunoassay, immunology, hemoglobin, hematology and tumor marker testing. In order to assure a variety of challenges at normal and abnormal levels, analyte levels in each program are regularly reviewed by a steering committee, comprised of independent doctors and industry experts, EQAS programs* are accredited by Clinical Pathology Accreditation (UK) Ltd.

* Please contact your local Bio-Rad office for current information regarding specific EQAS programs

Participation in EQAS

Each EQAS cycle includes a set of 12 numbered samples (shipped at the same time) and all the necessary documentation. Additional specimen packs or documentation may be requested to suit your specific needs. If preferred, users may view and print required documentation/forms at www.QCNet.com. Samples are tested in the same manner as a patient sample and results are submitted by the due date for each sample.

EQAS eForms

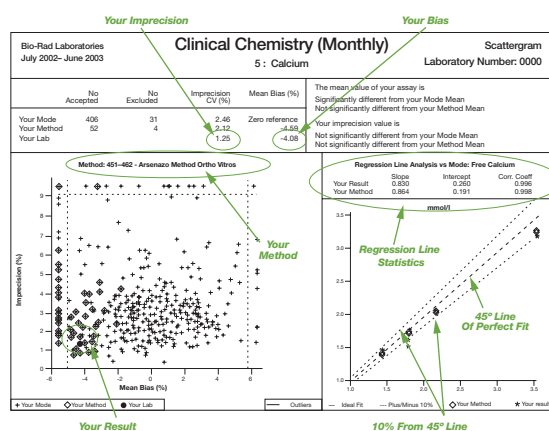
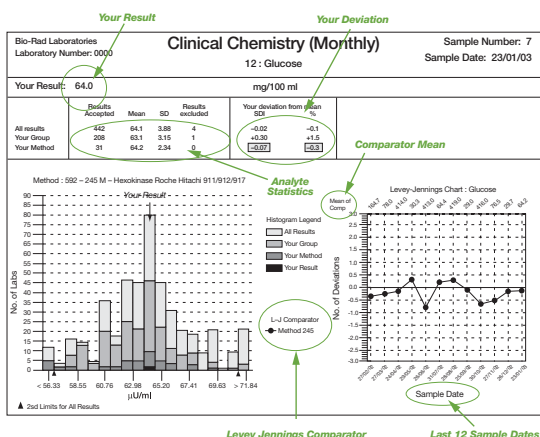
Submit your results electronically using EQAS eForms, at no additional charge.

- Conveniently enter results at your computer
- Submit via email or the internet
- Eliminate late results due to postal delays
- Save and retrieve data from prior samples/cycles



EQAS Reports

Bi-Weekly/Monthly Reports and End-of-Cycle Reports can be accessed and viewed online at www.QCNet.com within three days of the statistical analysis. Alternatively, printed reports can be mailed to your laboratory.



Bi-Weekly / Monthly Report

- 12 reports each cycle (provided bi-weekly or monthly)
- Easy-to-read graphical format
- Summary of sample results for convenient overview
- Comprehensive data analysis by individual analyte

End-of-Cycle Report

- Overview of laboratory performance for the entire cycle
- Review of performance and progress at a glance
- Provides assessment in terms of imprecision and bias
- Summary of individual, national and overall performance scores

Additional special reports are available on request, including a Sub-Group Report and an Instrument / Method Summary Report. An accreditation reporting service is also available to UK participants.

"EQAS Reports – Essential Information for Busy Laboratory Managers", a step-by-step guide available in PowerPoint® format, may be requested to assist in interpreting EQAS reports. Please contact your local Bio-Rad representative.

Certificate of Participation

A Certificate of Participation is provided upon receipt of sufficient valid data at the end of a program cycle. This can be used as evidence of successful participation in an external quality assessment program for the purpose of laboratory accreditation.





Clinical Chemistry Program

- Lyophilized, human serum based
- Choice of program size to suit your needs
- 6-month cycle
- Submit results for the appropriate sample every two weeks
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

α -Hydroxybutyrate Dehydrogenase (HBDH)	Aspartate Aminotransferase (AST/SGOT)	Creatine Kinase (CK)	Potassium
γ -Glutamyl Transferase (GGT)	Bicarbonate (CO ₂)	Creatinine	Prostatic Acid Phosphatase (PAP)
Acid Phosphatase (Total)	Bilirubin (Total)	Glucose	Protein (Total)
Alanine Aminotransferase (ALT/SGPT)	Calcium (Total)	Iron	Sodium
Albumin	Chloride	Iron Binding Capacity, Total (TIBC)	Triglycerides
Alkaline Phosphatase (ALP)	Cholesterol (HDL)	Lactate Dehydrogenase (LDH)	Urea
Aluminum	Cholesterol (Total)	Lithium	Uric Acid
Amylase (Total)	Copper	Magnesium	Zinc
	Cortisol	Osmolality	
		Phosphate	

Refer to the package insert for current analyte claims

▼ Ordering Information

*Select analytes from the comprehensive menu above

Cat #	EQAS Program	Qty	Cat #	EQAS Program	Qty
BC36	Clinical Chemistry Program (17 analytes)*	12 x 5 mL	CS37	Clinical Chemistry Program (35 analytes)	Report only
BC37	Clinical Chemistry Program (35 analytes)	12 x 5 mL	QC37	Clinical Chemistry Program	
CS36	Clinical Chemistry Program (17 analytes)*	Report only		(specimen pack only)	12 x 5 mL



Clinical Chemistry (Monthly) Program

- Lyophilized, human serum based
- Choice of program size to suit your needs
- 12-month cycle
- Submit results for the appropriate sample every month
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

γ -Glutamyl Transferase (GGT)	Bilirubin (Direct)	Glucose	Potassium
Alanine Aminotransferase (ALT/SGPT)	Bilirubin (Total)	Iron	Protein, Total
Albumin	Calcium (Ionized)	Iron Binding Capacity, Total (TIBC)	Sodium
Alkaline Phosphatase (ALP)	Calcium (Total)	Lactate Dehydrogenase (LDH)	Thyroid Stimulating Hormone (TSH)
Amylase (Pancreatic)	Chloride	Lipase	Thyroxine (T ₄), Total
Amylase (Total)	Cholesterol (HDL)	Lithium	Triglycerides
Aspartate Aminotransferase (AST/SGOT)	Cholesterol (Total)	Magnesium	Triiodothyronine (T ₃), Total
Bicarbonate (CO ₂)	Creatine Kinase (CK)	Osmolality	Urea
	Creatinine	Phosphate	Uric Acid

Refer to the package insert for current analyte claims

▼ Ordering Information

*Select analytes from the comprehensive menu above

Cat #	EQAS Program	Qty	Cat #	EQAS Program	Qty
BC5L	Clinical Chemistry (Monthly) Program (10 Analytes)*	12 x 5 mL	CS50	Clinical Chemistry (Monthly) Program (35 Analytes)	Report only
BC50	Clinical Chemistry (Monthly) Program (35 Analytes)	12 x 5 mL	QC50	Clinical Chemistry (Monthly) Program	
CS5L	Clinical Chemistry (Monthly) Program (10 Analytes)*	Report only		(specimen pack only)	12 x 5 mL



Urine Chemistry Program

- Lyophilized, human urine based
- Matrix appropriate samples include basic and specialty urine chemistry analytes
- Choice of program size to suit your needs
- 12-month cycle
- Submit results for the appropriate sample every month
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

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

Refer to the package insert for current analyte claims

▼ Ordering Information

*Select analytes from the comprehensive menu above

Cat #	EQAS Program	Qty	Cat #	EQAS Program	Qty
BC40	Urine Chemistry Program (12 analytes)*	12 x 10 mL	CS45	Urine Chemistry Program (24 analytes)	Report only
BC45	Urine Chemistry Program (24 analytes)	12 x 10 mL	QC40	Urine Chemistry Program	
CS40	Urine Chemistry Program (12 analytes)*	Report only		(specimen pack only)	12 x 10 mL



Therapeutic Drug Monitoring Program

- Lyophilized, human serum based
- Choice of program size to suit your needs
- Analytes targeted at therapeutic, sub-therapeutic and toxic levels
- 6-month cycle
- Submit results for the appropriate sample every two weeks
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

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

Refer to the package insert for current analyte claims

▼ Ordering Information

*Select analytes from the comprehensive menu above

Cat #	EQAS Program	Qty	Cat #	EQAS Program	Qty
BC05	Therapeutic Drug Monitoring Program (12 analytes)*	12 x 5 mL	CS10	Therapeutic Drug Monitoring Program (21 analytes)	Report only
BC10	Therapeutic Drug Monitoring Program (21 analytes)	12 x 5 mL	QC05	Therapeutic Drug Monitoring Program	
CS05	Therapeutic Drug Monitoring Program (12 analytes)*	Report only		(specimen pack only)	12 x 5 mL



Immunoassay Programs

- Lyophilized, human serum based
- Comprehensive analyte menu with 4 separate programs available
- 6-month cycle
- Submit results for the appropriate sample every two weeks
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

PROGRAM 1

Alphafetoprotein (AFP)
 Estriol (Total)
 Estriol (Unconjugated)
 Ferritin
 Folate
 hCG
 T3 Uptake/T-Uptake
 Thyroid Stimulating
 Hormone (TSH)
 Thyroxine Binding Globulin (TBG)
 Thyroxine (FT₄), Free
 Thyroxine (T₄), Total
 Transferrin
 Triiodothyronine (FT₃), Free
 Triiodothyronine (T₃), Total
 Vitamin B₁₂

PROGRAM 2

17- α -OH-Progesterone
 Aldosterone
 Angiotensin Converting
 Enzyme (ACE)
 Cortisol
 DHEA Sulfate
 Digoxin
 Estradiol
 Follicle Stimulating Hormone (FSH)
 Gastrin
 hCG
 hGH
 Insulin
 Intact PTH
 LH
 Progesterone
 Prolactin
 Renin (Angiotensin 1)
 Renin (Direct)
 Sex Hormone Binding
 Globulin (SHBG)
 Testosterone

PROGRAM 3

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)
 Prealbumin
 Protein (Total)
 Rheumatoid Factor (RF)

PROGRAM 4

Alphafetoprotein (AFP)
 CA 15-3
 CA 19-9
 CA 125
 Carcinoembryonic
 Antigen (CEA)
 hCG
 PSA (Free)
 PSA (Free/Total Ratio)
 PSA (Total)
 Prostatic Acid
 Phosphatase (PAP)

Refer to the package insert for current analyte claims

▼ Ordering Information

Cat #	EQAS Program	Quantity
BC21	Immunoassay Program 1	12 x 5 mL
BC22	Immunoassay Program 2	12 x 5 mL
BC23	Immunoassay Program 3	12 x 1 mL
BC24	Immunoassay Program 4	12 x 1 mL
CS21	Immunoassay Program 1	Report only
CS22	Immunoassay Program 2	Report only
CS23	Immunoassay Program 3	Report only
CS24	Immunoassay Program 4	Report only
QC21	Immunoassay Program 1 (specimen pack only)	12 x 5 mL
QC22	Immunoassay Program 2 (specimen pack only)	12 x 5 mL
QC23	Immunoassay Program 3 (specimen pack only)	12 x 1 mL
QC24	Immunoassay Program 4 (specimen pack only)	12 x 1 mL



Immunoassay (Monthly) Program

- Lyophilized, human serum based
- Includes 35 of the most commonly tested immunoassay analytes
- Choice of program size to suit your needs
- 12-month cycle
- Submit results for the appropriate sample every month
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

17- α -OH-Progesterone	Ferritin	PSA (Free)
β -2 Microglobulin	Folate	PSA (Total)
Alphafetoprotein (AFP)	Follicle Stimulating Hormone (FSH)	Testosterone
CA 15-3	hCG	Theophylline
CA 19-9	hGH	Thyroid Stimulating Hormone (TSH)
CA 125	Immunoglobulin E (IgE)	Thyroxine (FT ₄), Free
Carbamazepine	Intact PTH	Thyroxine (T ₄), Total
Carcinoembryonic Antigen (CEA)	LH	Triiodothyronine (FT ₃), Free
Cortisol	Phenobarbital	Triiodothyronine (T ₃), Total
DHEA Sulfate	Phenytoin	Valproic Acid
Digoxin	Progesterone	Vitamin B ₁₂
Estradiol	Prolactin	

Refer to the package insert for current analyte claims

▼ Ordering Information

*Select analytes from the comprehensive menu above

Cat #	EQAS Program	Quantity
BC7L	Immunoassay (Monthly) Program (8 analytes)*	12 x 5 mL
BC70	Immunoassay (Monthly) Program (17 analytes)*	12 x 5 mL
BC75	Immunoassay (Monthly) Program (35 analytes)	12 x 5 mL
CS7L	Immunoassay (Monthly) Program (8 analytes)*	Report only
CS70	Immunoassay (Monthly) Program (17 analytes)*	Report only
CS75	Immunoassay (Monthly) Program (35 analytes)	Report only
QC75	Immunoassay (Monthly) Program (specimen pack only)	12 x 5 mL



Hemoglobin Program

- Lyophilized, human whole blood based
- Includes HbA1C and HbA₂
- 12-month cycle
- Submit results for the appropriate sample every month
- Option to submit data electronically and view reports online at www.QCNet.com

Analytes

Hemoglobin A1C
Hemoglobin A₂
Hemoglobin (Total Glycated)

Refer to the package insert for current analyte claims

▼ Ordering Information

Cat #	EQAS Program	Quantity
BC80	Hemoglobin Program	12 x 0.5 mL
CS80	Hemoglobin Program	Report only
QC80	Hemoglobin Program (specimen pack only)	12 x 0.5 mL

Hematology Program

- Liquid product with stabilized human RBCs and WBCs
- Choice of 10 basic hematology parameters
- For use on manual or automated analyzers
- 6-month cycle
- Submit results for the appropriate sample every two weeks
- Option to submit data electronically and view reports online at www.QCNet.com



Parameters

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

Refer to the package insert for current parameter claims

▼ Ordering Information

Cat #	EQAS Program	Quantity
BC90	Hematology Program	12 x 2 mL
CS90	Hematology Program	Report only
QC90	Hematology Program (specimen pack only)	12 x 2 mL

Education, Accessories and Safety



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Educational Tools & Seminars

With a growing library of educational booklets and brochures, online learning options, QC seminars, and customer training facilities, Bio-Rad is proud to demonstrate a commitment to your educational needs and continuous improvement in the clinical laboratory.



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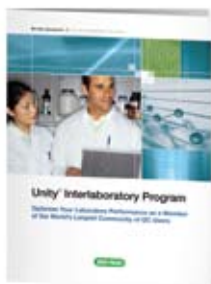


60-page booklet

Basic Lessons in Laboratory Quality Control

Illustrates How to Set Up a Simple and Effective Quality Control System Using Statistical Process Control

- Learn how to apply the basic elements of quality control
- Self tests included for all chapters
- Final examination may be submitted for certificate of completion (Score of 70% or higher needed), approved for 2.5 contact hours by the P.A.C.E. Program of the American Society of Clinical Laboratory Science (ASCLS)



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Unity™ Interlaboratory Program

A complete guide to optimizing the performance of your laboratory using the Unity™ Interlaboratory Program. Includes a reference guide to the standard and optional reports available through the interlaboratory program. Explains the importance of an interlaboratory program in a regulated environment.



16-page booklet

Preparations & Considerations When Seeking Laboratory Accreditation Under ISO 15189

Provides a general overview of ISO 15189 and each Quality System Essential (QSE). Describes how to construct the framework of a laboratory quality system.



Quality Control Troubleshooting Poster

A Basic Introduction to Quality Control for the Wall of Your Laboratory to Provide Entry-Level Guidance

- Utilize basic statistical process controls
- Westgard Rules to provide a structured approach to QC troubleshooting
- Provides steps on how to calculate statistical parameters for a Levey-Jennings chart

Size: 32 x 34 inches

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Metrological Traceability of Laboratory Results



Third Party Controls

Training Available on Quality Control

Continuing Education Seminars

Experienced and knowledgeable Bio-Rad personnel are available in many locations worldwide to provide educational seminars on QC related topics, ranging from basic to advanced level, with the opportunity to earn continuing education credits. Seminars may also be arranged to focus on specific areas of interest, including presentations by internationally renowned opinion leaders in the diagnostics industry.

Contact your local Bio-Rad sales representative for information on upcoming seminars

QCNet™ Online Education

Laboratory professionals can study from a wide range of QC related topics and earn P.A.C.E. Continuing Education Units. Conveniently offered online, this educational opportunity offers the flexibility needed in today's busy environment to stay current and meet certification and licensing requirements. Courses include examples drawn from actual laboratory practices, providing tangible knowledge that can be applied in the laboratory.

Learn more at www.QCNet.com/Education



Dispenser Tips for Screw Caps

An accessory for control bottles with a screw cap type closer. These plastic tops allow the glass vial to be used as a dropper bottle to conveniently dispense the control in drops.

- Easy and convenient to use
- Dispense in drops

▼ Ordering Information

Refer to individual product inserts for any use restrictions

Cat #	Product	Quantity
987000	Dispenser Tips for Screw Caps.	100 / Package



Dispenser Tips for Crimp Seals

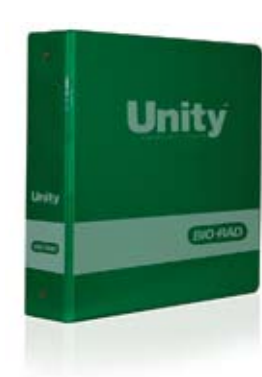
An accessory for control bottles with a metal crimp seal and stopper. These plastic tops allow the glass vial to be used as a dropper bottle to conveniently dispense the control in drops.

- Easy and convenient to use
- Dispense in drops

▼ Ordering Information

Refer to individual product inserts for any use restrictions

Cat #	Product	Quantity
588	Dispenser Tips for Crimp Seals.	50 / Package



Unity™ Binders

Keep your Unity™ Interlaboratory Program reports organized and readily available.

- 2 inch Capacity
- 3-Ring for Letter Size (8.5 x 11 inches)
- 4-Ring for A4 Size
- Monthly Tabs Provided

To request these binders, please call your local Bio-Rad office.




Hazard Symbols and Definitions

Overview

Product hazard information is provided on the label of each product. For additional information, refer to the product insert and Material Safety Data Sheet (MSDS). The product insert contains general safe-use instructions and the test status of potentially infectious materials.

Chemical hazards are described in the MSDS using standardized hazard symbols, risk and safety phrases conforming to the United States and the European Community Commission rules and regulations.

For a copy of an MSDS, 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. MSDS and product inserts are also available online at www.QCNet.com.

Pictogram	Symbol	Definition
 Harmful	Xn	Substances which may cause death or acute or chronic damage to health when inhaled, swallowed or absorbed via the skin.
 Irritant	Xi	Non-corrosive substances which, through immediate, prolonged or repeated contact with the skin or mucous membrane, may cause inflammation.
 Toxic	T	Substances which in low quantities cause death or acute or chronic damage to health when inhaled, swallowed or absorbed via the skin.

Risk Phrases

R22	Harmful if swallowed
R25	Toxic if swallowed
R43	May cause sensitization by skin contact
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases

S24	Avoid contact with skin
S35	This material and its container must be disposed of in a safe way
S37	Wear suitable gloves
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S61	Avoid release to the environment. Refer to special instructions/safety data sheets

CE Marking on Bio-Rad Products

The letters “CE” are an abbreviation of the French phrase “Conformité Européen.” 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). The CE Mark allows products to be sold within the European Economic Area (EEA).

The IVDD is one of many European directives intended to help ensure product conformity to certain standards across the EEA. The EEA consists of the European member states and several other European Free Trade Association members. The IVDD replaces multiple, and sometimes conflicting national standards or regulations in individual countries.

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 an Authorized Representative for Bio-Rad.
















What is the product labeling associated with CE Marking?

The most significant impact on the labeling is the number of languages on the product insert and the box label. The languages include English, German, French, Italian, Spanish, Portuguese, Swedish and Danish. Additional languages are available. Japanese is also often included on the product insert, but is not related to CE Marking. The product insert text uses symbols where appropriate. The meanings of the symbols are identified in the product insert and are also shown below. A glossary of all the analytes contained in the product and translations in all the languages are included in each insert.

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

	European Conformity		Use by YYYY-MM-DD (Expiration Date)		Reconstitute With
	For In Vitro Diagnostic Use		Manufactured by		Catalog Number
	Temperature Limit (Recommended product storage range)		Manufactured for		Lot Number
	Authorized Representative		Consult instructions for Use (Refer to package insert)		Caution
	Cycle Number		Results Receipt Date		Sample Number

Reference



Bio-Rad Controls for Popular Instruments

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Analyte Charts & Indices

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Molecular/Infectious Disease Analyte Index.	134
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Popular Chemistry & Immunoassay Instruments

Values for these controls may be found in the applicable product insert or Unity™ Interlaboratory Program Reports. If your instrument model is not listed, please contact your nearest Bio-Rad office for current control information.

- Chemistry
- Immunoassay
- Cardiac Assessment

Manufacturer / Instrument(s)

	Assayed Chemistry	Assayed Multiquel	Ethanol/Ammonia	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiquel	Lipids	Microalbumin	Pediatric	Quantitative Urine	Urine Chemistry	Anemia	Fertility	Hypertension Markers	Immunoassay Plus (Liquid & Lyophilized)	Maternal Serum	Specialty Immunoassay	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Cardiac Markers Plus	Cardiac Markers Plus LT	Cardiac Markers LT, Level Low	CK/LD Isoenzyme	Homocysteine
Abbott Diagnostics																								
Aeroset™	●	●	●	●	●	●	●	●	●	●	●				●									
Architect® Series	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●		●	●	●	●	●		
AxSYM®	●	●	●	●	●	●						●	●		●	●	●	●	●	●	●	●		●
IMx®	●	●		●		●						●	●		●	●		●	●	●	●			●
TDx® FLx®	●	●	●	●		●									●									
Arkray / A.Menrini Diagnostics																								
ADAMS™ A1c HA-8160/8140																								
Beckman Coulter®																								
Access® Series/LX® i/UniCel® DxI		●	●	●				●		●		●	●		●	●	●	●	●	●	●	●		●
Array®	●	●					●			●	●	●			●					●	●	●		
CX® /LX®/UniCel® Dx Series	●	●	●	●	●	●	●	●	●	●	●	●			●			●	●	●	●	●	●	●
Image®		●					●	●			●	●			●					●	●			
BioMérieux																								
VIDAS®												●	●		●				●	●	●	●		
Bio-Rad Laboratories																								
VARIANT II™ Turbo																								
VARIANT II™																								
D-10™																								
Olympus®																								
AU Series	●	●	●	●	●	●	●	●	●	●	●				●					●	●		●	●
Ortho Clinical Diagnostics																								
VITROS® Series	●	●	●	●	●	●	●	●	●	●	●				●					●	●		●	
VITROS® Eci												●	●	●	●	●		●	●	●	●			
Roche Diagnostics																								
Cobas® 6000 Series/COBAS INTEGRA®	●	●	●	●	●	●	●	●	●	●	●				●			●	●	●	●	●	●	
COBAS MIRA® Series	●	●	●	●	●	●	●	●	●	●	●				●								●	●
Elecsys® Systems												●	●		●	●	●	●	●	●	●	●		
Hitachi® Systems	●	●		●	●	●	●	●	●	●	●	●			●			●	●	●	●	●	●	●
MODULAR Systems	●	●	●	●	●	●	●		●	●	●	●	●		●	●	●	●	●	●	●			
Siemens																								
ADVIA® Series	●	●	●	●	●	●	●	●	●	●	●									●	●			
ADVIA® Centaur® Series		●						●		●		●	●		●	●	●	●	●	●	●	●		●
BN® Series	●	●					●			●					●					●	●			
Dimension Vista®	●	●	●	●	●	●	●	●	●	●	●	●			●			●	●	●	●	●	●	●
Dimension® Series	●	●	●	●	●	●	●	●	●	●	●	●			●			●	●	●	●	●	●	●
IMMULITE® Series		●					●			●	●	●	●	●	●	●	●	●	●	●	●			●
Stratus®																				●	●			
Viva®/Syva® V-Twin™/Viva-E®																								
Tosoh																								
AIA® Series												●	●		●			●	●	●	●			
A1c																								
G7																								
Other																								
GC/GC-MS/GC-FID			●																					
AA/AA, Graphite Furnace/AAS, Flame																								
LC/LC-MS/HPLC																								
ICP-MS																								

Popular Infectious Disease Instruments

Please contact your Bio-Rad representative for additional details.

Manufacturer / Instrument(s)	▼ Positive Controls														▼ Negative Controls									
	VIOTROL I	VIOTROL II	VIOTROL III	VIOTROL IV	VIOTROL HIV-1 Ag	VIOTROL HIV-2	VIOTROL HAV-IgM	VIOTROL HBeAg	VIOTROL HBcIgM	VIOTROL Syphilis Total	VIOTROL ToRCH	VIOTROL ToRCH-M	Liquichek ToRCH Plus (Positive)	Liquichek ToRCH Plus IgM (Positive)	VIOTROL MuMZ	VIOTROL EBV	PyloriTrol	VIOTROL LYME	VIROCLEAR	VIROCLEAR ToRCH	Liquichek ToRCH Plus (Negative)	Liquichek ToRCH Plus IgM (Negative)	VIROCLEAR MuMZ	VIROCLEAR EBV
Abbott Diagnostics																								
Architect™ Series	●	●	●	●	●	●	●	●	●		●	●	●	●					●	●	●	●		
AxSYM®	●	●	●	●	●	●	●	●	●		●	●	●	●					●	●	●	●		
PRISM®	●																		●					
Beckman Coulter®																								
Access® Series/LX® iUniCel® Dxl	●	●	●								●	●	●	●					●	●	●	●		
BioMérieux																								
VIDAS®	●										●	●	●	●			●		●	●	●	●		
Bio-Rad Laboratories																								
Evolis™	●	●	●			●	●				●		●		●	●	●	●	●	●	●		●	●
DiaSorin																								
LIAISON®										●	●		●		●	●		●	●	●			●	●
ETI-MAX Systems	●	●	●	●				●	●	●	●		●		●	●	●		●	●			●	●
Diesse																								
Chorus Line											●		●							●	●			
Ortho Clinical Diagnostics																								
VITROS® ECI	●	●	●	●	●	●	●	●	●		●	●	●						●	●	●	●		
Roche Diagnostics																								
Elecsys® Systems	●	●	●								●		●						●	●	●			
Siemens																								
ADVIA® Centaur® Series	●	●	●			●	●		●		●	●	●	●					●	●				
IMMULITE® Series	●	●	●				●				●	●	●						●	●	●			

The controls listed here include analyte(s) that may be appropriate for use on the test systems noted. Content is provided as a guide and for informational purposes only. Results and specific performance characteristics may vary with different manufacturers' test kits and assay procedures, different lots of the same test kit, and different lots of the control material. Please note that not all products may be available in all countries. Refer to the product insert for current product claims.

Popular Hematology Instruments

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

- Use for CBC Parameters Only
- ◆ Use for Reticulocyte Counts
- Use for CBC and 5-Part Differential Parameters
- ▲ Use for CBC and 2- or 3-Part Differential Parameters

Manufacturer / Instrument(s)

	Hematology (A)	Reticulocyte (A)	Hematology (C)	Reticulocyte	Hematology-16	Hematology-16T	Sedimentation Rate
Abbott Diagnostics							
CELL-DYN® 1400/1500							
CELL-DYN® 1600/1700	▲				▲		
CELL-DYN® 1800	▲				▲		
CELL-DYN® 3000	■				▲		
CELL-DYN® 3200	■	◆					
CELL-DYN® 3500/3700	■	◆					
CELL-DYN® Ruby™	■						
HORIBA ABX Diagnostics							
Micros 60					▲		
Spirit					▲		
Beckman Coulter®							
AcT™ 3 Part Differential					▲		
AcT™ 5 Part Differential					●		
S-Plus IV, V, VI 3 Part Differential / STKR					▲		
MD™ / Onyx™ Systems					▲		
Gen-S™			■	◆			
HmX			■		▲		
LH 500			■	◆			
LH 700 Series			■	◆			
STKS™			■	◆	►		
MAXM™			■	◆	►		
T-Series T890/T660/T540					▲		
Danam							
Datacell 16CP/I-1800					▲		
Datacell 18/18MS/18MS Plus					▲		
Mindray™							
BC-1800/2100/2300/2800/3000 Plus/3200					▲		
Serono Diagnostics							
System 9000/9100					▲		
Sysmex							
K-1000/K-2000						▲	
K-4500						▲	
KX-21						▲	
Other							
BD Vacutainer® Seditainer™							●
Chase Disposable Westergren Tubes							●
HumaSed 20, 40							●
Mini-Ves®							●
Polymedco Sedimat® 60							●
Polymedco Sediplast							●
SRS100, SRS20, SRT10							●
Streck ESR-Auto Plus®							●
Ves-Matic® 10							●
Excyte™ 20 & 40							●
Westergren (Modified)							●
Wintrobe							●

Popular Blood Gas Instruments

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

Manufacturer / Instrument(s)

	Blood Gas	Blood Gas Plus E	Blood Gas Plus EGL	Blood Gas Plus Co-Oximeter (Bayer 800)	Blood Gas Plus Co-Oximeter (IL)	Blood Gas Plus Co-Oximeter (IL Synthesis)	Blood Gas Plus Co-Oximeter (Radiometer)
ESCHWEILER							
Combisys	●	●	●				
Ecolyte/Ecosys II/Modular	●	●	●				
System 2000/3000	●	●	●				
Instrumentation Laboratory							
IL 282"/IL 482"/IL 682" Co-Oximeter					●		
IL 1300/1600 Series		●	●	●	●		●
BG Series		●	●	●	●		●
BGE Series		●	●	●	●		●
GEM® Premier™		●	●				
Synthesis						●	
Nova® Biomedical							
Stat Profile® CCX 1/2/3/4/5/7/9/10	●	●	●				
Stat Profile® 3				●	●		
Stat Profile® Ultra			●				
Radiometer							
ABL 2/3/4/5/30/50	●	●	●	●	●		●
EML 100/ OSM 3							●
ABL 300/500	●	●	●	●	●		●
ABL 600 Series	●	●					●
Roche Diagnostics							
AVL 939/940/945/947/990/995	●	●	●	●	●		●
AVL Compact	●	●					
AVL Omni	●	●					
Siemens							
Bayer 100/200 Series	●	●	●	●	●		●
Bayer 600 Series		●	●	●	●		●
Bayer Rapidlab® 800 Series	●	●	●	●	●		●
YSI Life Sciences							
YSI STAT Plus™ 2300				●	●		●

Popular Coagulation Instruments

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

Manufacturer / Instrument(s)	Coagulation	D-dimer	Hemostasis
BioMérieux			
VIDAS®		●	
Diagnostica Stago			
STA® Hemostasis System	●	●	●
Instrumentation Laboratory			
ACL® Advance/Futura	●	●	●
ELECTRA®	●		●
Roche Diagnostics			
COBAS INTEGRA®		●	
Hitachi® Systems		●	
MODULAR Systems		●	
Siemens			
BCS®/BCT®	●	●	●
Stratus® CS		●	
Sysmex® CA Series	●	●	●
Trinity Biotech			
AMAX® Series	●	●	●

Control Analyte Index

See page number

- 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

#

A

	58	134	6/68	19	30	29	44	73	39	38	38	39	50	50	46	47	74	43	70	32	21	51	52	53	53	47	48	50	40	22	17	18
	See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquant	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK/LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)
3-Methoxytyramine																																
5-Aminolevulinic Acid (ALA)																																
5-HIAA																																
6-Monoacetylmorphine			■																													
11-β-Hydroxy-Androsterone																																
11-β-Hydroxy-Etiocholanolone																																
11-Deoxycortisol																															■	●
11-Ketoandrosterone																																
11-Ketoetiocholanolone																																
11-Nor-Δ-9-THC-9-COOH			●																													
17-α-Hydroxyprogesterone																															●	●
17-Hydroxycorticosteroids																																
17-Ketogenic Steroids																																
17-Ketosteroids																																
25-Hydroxy Vitamin D																															□	○
α-1-Acid Glycoprotein																																
α-1-Antitrypsin					○	○																										
α-1-Globulin												●																				
α-2-Globulin												●																				
α-2-Macroglobulin																																
α-Hydroxyalprazolam			●																													
αHBDH					○	○																										
β-2-Microglobulin																																
β-Globulin						○						●																				
γ-Globulin						○						●																				
A/G Ratio						○																										
Acetaminophen			●		●	●											▶														●	●
Acetone																																
Acid Phosphatase					●	●																										
ACTH																														●	●	
Activated Partial Thromboplastin Time (APTT)													●															●				
ADH																														■		
ADNase B																																
ALA																																
Albumin					●	●						●																				
Albumin-to-Creatinine Ratio																																
Alcohol (Ethanol)			●			●														●												
Alcohol (Isopropanol)																																
Alcohol (Methanol)																																
Aldolase																																
Aldosterone						●	●																							●	●	●
Alkaline Phosphatase					●	●																										
Alphafetoprotein (AFP)					○																										●	●
Alprazolam								●									▶															
ALT/SGPT					●	●																										
Aluminum																																
Amikacin						●											▶														●	●
Amiodarone																															■	■
Amitriptyline								●									▶														■	■
Ammonia																				●												
Amobarbital			●																													
AMP (Cyclic)																																
Amphetamines			●														▶															
Amylase					●	●																										
Amylase (Alpha)					●																											

[illegible]

Control Analyte Index

See page number

- 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

B

C

	See page number			58	134	6166	19	30	29	44	73	39	38	38	39	50	50	46	47	74	43	70	32	21	51	52	53	53	47	48	50	40	22	17	18
	See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquant	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK/LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)			
Amylase (Pancreatic)					●	●																													
ANA, Centromere Pattern							●																												
ANA, Homogeneous Pattern							●																												
ANA, Mitotic Spindle Pattern							●																												
ANA, Nucleolar Pattern							●																												
ANA, Speckled Pattern							●																												
Androstenedione																																	●	●	
Androsterone																																			
Angiotensin I																																	□	○	
Anti-CMV		●																																	
Anti-Cytomegalovirus (CMV)		●																																	
Anti-HAV		●																																	
Anti-HBc		●																																	
Anti-HBe		●																																	
Anti-HBs		●																																	
Anti-HCV		●																																	
Anti-HDV		●																																	
Anti-HIV-1		●																																	
Anti-HIV-2		●																																	
Anti-HTLV-I/II		●																																	
Anti-Mitochondrial							●																												
Antimony																																			
Anti-nDNA							●																												
Anti-RNP							●																												
Anti-Scl-70							●																												
Anti-Sm							●																												
Anti-Smooth Muscle							●																												
Anti-SS-A							●																												
Anti-SS-B							●																												
Antistreptolysin O (ASO)																																			
Anti-Thyroglobulin (Anti-Tg)																																	□	□	
Anti-Thyroperoxidase (Anti-TPO)																																	□	□	
Antithrombin III (AT III)													●																						
Apolipoprotein A-1					○	○																													
Apolipoprotein B					○	○																													
Arsenic																																			
Ascorbic Acid																																			
AST/SGOT					●	●																													
Autoimmune Negative							●																												
Barbiturates			●																																
Basophils (BASO)																							●	●											
% Basophils																																			
Benzodiazepines			●					●																											
Benzoyllecgonine			●																																
Bilirubin																																			
Bilirubin (Direct)					●	●																													
Bilirubin (Indirect)					●																														
Bilirubin (Neonatal)						●																													
Bilirubin (Total)					●	●																													
Blood																																			
Borrelia burgdorferi IgG		●																																	
Butalbital			●																																
C1 Inhibitor																																			
CA 15-3																																			
CA 19-9																																			

42	43	31	21	48	34	32	35	35	33	52	51	43	54	70	19	44	25	26	20	20	31	30	29	36	72	34	71	72	24	71	70	See page number	
Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	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	Whole Blood Metals	Whole Blood Volatiles		
																						●	●									Amylase (Pancreatic)	
																																ANA, Centromere Pattern	
																																	ANA, Homogeneous Pattern
																																	ANA, Mitotic Spindle Pattern
																																	ANA, Nucleolar Pattern
																																	ANA, Speckled Pattern
																																	Androstenedione
									■																								Androsterone
																																	Angiotensin I
																																	Anti-CMV
																																	Anti-Cytomegalovirus (CMV)
																																	Anti-HAV
																																	Anti-HBc
																																	Anti-HBe
																																	Anti-HBs
																																	Anti-HCV
																																	Anti-HDV
																																	Anti-HIV-1
																																	Anti-HIV-2
																																	Anti-HTLV-I/II
																																	Anti-Mitochondrial
																												●					Antimony
																																	Anti-nDNA
																																	Anti-RNP
																																	Anti-Scl-70
																																	Anti-Sm
																																	Anti-Smooth Muscle
																																	Anti-SS-A
●	●																																Anti-SS-B
																																	Antistreptolysin O (ASO)
																●																	Anti-Thyroglobulin (Anti-Tg)
																●																	Anti-Thyroxine (Anti-TPO)
●																																	Antithrombin III (AT III)
●	○																					○	○									Apolipoprotein A-1	
●	○																					○	○									Apolipoprotein B	
									●																			●			●		Arsenic
							●	●																									Ascorbic Acid
																						●	●	●									AST/SGOT
									■																								Autoimmune Negative
																														</			

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- Analyte present in endogenous levels
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- 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

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See page number

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	58	134	6166	19	30	29	44	73	39	38	38	39	50	50	46	47	74	43	70	32	21	51	52	53	53	47	48	50	40	22	17	18
	See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquant	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK/LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)
CA 27.29																																
CA 50*																																
CA 72-4*																																
CA 125																																
Cadmium																																
Caffeine																	▶														●	●
Calcitonin																																●
Calcium					●	●																										
Calcium (Ionized)	●				○	●																										
Cannabinoid Metabolite			●														▶															
Carbamazepine					●	●											▶														●	●
Carbamazepine (Free)																															●	●
Carboxyhemoglobin	●																															
CASA*																																
Casts																																
Catecholamines (Free)																																
Catecholamines (Total)																																
CBC																						●	●	●	●							
CEA					○																										●	●
Centromere Pattern							●																									
Ceruloplasmin					○	○																										
CH50 (Total Hemolytic Complement)																																
Chlamydia trachomatis		●																														
Chloramphenicol																	▶														●	●
Chlordiazepoxide							●										▶															
Chloride	●				●	●																										
Cholesterol (HDL)					●	●																										
Cholesterol (LDL)					●	●																										
Cholesterol (Total)					●	●																										
Cholinesterase					○	○																										
Chromium																																
Cimetidine																	▶															
CK (Total)										●	●	●																				
CK Electrophoresis												●																				
CK-BB Isoenzyme												●																				
CK-MB Isoenzyme						●			●	●	●	●																			●	
CK-MM Isoenzyme												●																				
Clarity																																
Clomipramine							●										▶															
Clonazepam							■										▶															
CO ₂					●	●																										
Cobalt																																
Cocaine			●														▶															
Cocaine Metabolite			●																													
Codeine			●														▶															
Color																																
Complement C1q																																
Complement C3					○	○																										
Complement C4					○	○																										
Copper					○	○																										
Coproporphyrin																																
Cortisol					●	●																								●	●	●
C-Peptide																																●
C-Reactive Protein																	●															
Creatine																																

*International use only

42	43	31	21	48	34	32	35	35	33	52	51	43	54	70	19	44	25	26	20	20	31	30	29	36	72	34	71	72	24	71	70	See page number	
Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	Spinal Fluid	TDM (Liquid)	TDM (Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiquel	Urinalysis	Urine Bone Markers	Urine Chemistry	Urine Metals	Whole Blood	Whole Blood Immunosuppressant	Whole Blood Metals	Whole Blood Volatiles		
																			●	●											CA 27.29		
																			●	●											CA 50*		
																			●	●											CA 72-4*		
																			●	●											CA 125		
						●											●	●									●			●		Cadmium	
						●			●													●	●	●								Caffeine	
						●																●	●	●		●						Calcitonin	
																						■	○	●		●						Calcium	
																							○	●								Calcium (Ionized)	
																																Cannabinoid Metabolite	
																	●	●			●	●	●									Carbamazepine	
																	●	●				●	●									Carbamazepine (Free)	
																																Carboxyhemoglobin	
																				○												CASA*	
																								●								Casts	
																																Catecholamines (Free)	
																																Catecholamines (Total)	
																																CBC	
																																CEA	
●	●																		●	●		○	○									Centromere Pattern	
■																						○	○									Ceruloplasmin	
																																CH50 (Total Hemolytic Complement)	
																																Chlamydia trachomatis	
																	●	●														Chloramphenicol	
																																Chlordiazepoxide	
						●			●							●					●	●	●			●						Chloride	
																						●	●	●								Cholesterol (HDL)	
																						●	●	●								Cholesterol (LDL)	
																						○	○									Cholesterol (Total)	
																						○	○									Cholinesterase	
																											●						Chromium
																																	Cimetidine
																																	CK (Total)
																																	CK Electrophoresis
																								●									CK-BB Isoenzyme
																																	CK-MB Isoenzyme
																																	CK-MM Isoenzyme
																								●									Clarity
																																	Clomipramine
																	■																Clonazepam
																					●	●	●									CO ₂	
																											●						Cobalt
																																	Cocaine
																																	Cocaine Metabolite
																																	Codeine
																								●									Color
		■																															Complement C1q
●	●																					○	○									Complement C3	
●	●																					○	○									Complement C4	
									■												○	○	○				●						Copper
									●																								Coproporphyrin
									●								●	●			●	●	●			●							Cortisol
●	●	●													●																		C-Peptide
									■																●								C-Reactive Protein
																																	Creatine

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	See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquant	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK/LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)
Creatine Kinase (CK)																																
Creatinine			◆		●	●			●	●	●	●																				
CRP										●	●							●														
<i>Cryptococcus neoformans</i> Ag		●																														
Crystals																																
C-Telopeptide (CTx)																																
Cyclosporine																	▶														●	●
Cyfra 21-1*																																
Cystatin C																																
Cystine																																
Cytomegalovirus (CMV) IgG		●																														
Cytomegalovirus (CMV) IgM		●																														
d-Amphetamine			●																													
D-dimer														●																		
d-Methamphetamine			●																													
Dehydroepiandrosterone																																
Deoxyhemoglobin	●																															
Deoxypyridinoline (DPD)																																
Desalkylflurazepam								●									▶															
Desipramine								●									▶														●	●
Desmethyldoxepin																	▶															
DHEA																															●	●
DHEA Sulfate																															●	●
Diazepam								●									▶															
Digitoxin									●	●	●						▶					●										
Digoxin				●	●												▶														●	●
Disopyramide																	▶														●	●
Dopamine																			●													
Doxepin								●									▶															
EBNA IgG		●																														
EBV EA IgG		●																														
Ecstasy (MDMA)			●																													
EDDP (Methadone Metabolite)			■																													
Eosinophils (EOS)																						●	●									
Epinephrine																			●													
Epstein Barr Virus (VCA) IgG		●																														
Epstein Barr Virus (VCA) IgM		●																														
Erythrocyte Sedimentation Rate (ESR)																																
Erythropoietin (EPO)																																
Estradiol																						●									●	●
Estradiol (Free)																						●									●	●
Estradiol (Total)																						■									■	■
Estrogens (Total)																															●	●
Ethanol (Ethyl Alcohol)			●		●																											
Ethosuximide																	▶														●	●
Ethylene Glycol																																
Etiocannabinolone																																
Factors II, V, VII, VIII, IX, X, XI, XII																																
Ferritin				●		○																●									●	●
Fibrinogen													●															●				
Flecainide																	▶														●	●
Fluoride																																
Folate				●																											●	●
Folate (RBC)																																
Fructosamine																															○	○

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Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	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	Whole Blood Metals	Whole Blood Volatiles		
					●		●	●	●												●	●	●		●	●						Creatine Kinase (CK)	
●	●	●																			●	●	●		●	●	●					Creatinine	
																																CRP	
								●																●								Cryptococcus neoformans Ag	
																	■	●							●							Crystals	
																										●						C-Telopeptide (CTX)	
																													●			Cyclosporine	
●																			●	●												Cyfra 21-1*	
									■																								Cystatin C
																																	Cystine
																																	Cytomegalovirus (CMV) IgG
																																	Cytomegalovirus (CMV) IgM
																																	d-Amphetamine
																																	D-dimer
																																	d-Methamphetamine
									■																								Dehydroepiandrosterone
																										●							Deoxyhemoglobin
																																	Deoxypyridinoline (DPD)
																	●	●															Desalkylflurazepam
																		●															Desipramine
																		●															Desmethyllohexpin
																																	DHEA
																																	DHEA Sulfate
																	●																Diazepam
																																	Digitoxin
																	●	●			●	●	●									Digoxin	
									●								●	●															Disopyramide
																																	Dopamine
																																	Doxepin
																																	EBNA IgG
																																	EBV EA IgG
																																	Ecstasy (MDMA)
																																	EDDP (Methadone Metabolite)
									●																								Eosinophils (EOS)
																																	Epinephrine
																																	Epstein Barr Virus (VCA) IgG
													●																				Epstein Barr Virus (VCA) IgM
															■																		Erythrocyte Sedimentation Rate (ESR)
																																	Erythropoietin (EPO)

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FSH																																
Gastrin																																
Gentamicin					●	●											▶														●	●
GGT					●	●																										
GLDH					○																											
Globulin					○	○						●																				○
Glucagon																																
Glucose	●				●	●																										
Glutethimide			■														▶															
Granulocytes (GRAN)																						●		●								
Haloperidol																	▶															
Haptoglobin					○	○																										
HAV IgM		●																														
HBc IgM		●																														
HBeAg		●																														
HBsAg		●																														
HBV		●																														
hCG																					●										●	●
hCG-β Subunit					○																●										●	●
hCG (Total)																					●										●	●
HCV		●																														
HDL Cholesterol					●	●																										
Helicobacter pylori IgG		●																														
Hematocrit (HCT)																						●	●	●	●							
Hemoglobin (Reduced)	●																															
Hemoglobin (Total Glycated)															●	●																
Hemoglobin (Total)	●																					●	●	●	●							
Hemoglobin A1	●																															
Hemoglobin A1C															●	●										●						
Hemoglobin A ₂																											●					
Hemoglobin F																											●					
Hemoglobin S																											●					
Hemopexin																																
Hepatitis C Virus (anti-HCV)		●																														
Herpes Simplex Virus Type 1 IgG		●																														
Herpes Simplex Virus Type 1 IgM		●																														
Herpes Simplex Virus Type 2 IgG		●																														
Herpes Simplex Virus Type 2 IgM		●																														
hGH																															●	●
Hippuric Acid																																
HIV-1		●																														
HIV-1 Ag		●																														
Homocysteine										■	●	●																	●			
Homogenous Pattern							●																									
hs-CRP										●	●																					
Human Papillomavirus (HPV)		●																														
Human Placental Lactogen (hPL)																					■											
HVA																																
Hydromorphone																	▶															
Hydroxyproline (Free)																																
Hydroxyproline (Total)																																
Ibuprofen																	▶														●	●
Imipramine			●				●										▶													■	●	●
Immunoglobulin A (IgA)					○	○																								○	○	○
Immunoglobulin E (IgE)																															●	●

[illegible]

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●	●															●					○	○	○									Immunoglobulin G (IgG)				
●	●																				○	○	○									Immunoglobulin G Subclasses 1–4				
●	●																				○	○	○									Immunoglobulin M (IgM)				
																																	Immunoreactive Trypsinogen (IRT)			
															●				●													Insulin				
																																	Insulin Growth Factor I (IGF-I)			
																																	Intact PTH			
																																	Interleukin-2-Receptor			
									●												●	●	●										Iron			
																					○	○	○										Iron (TIBC)			
																					□	○	○										Iron (UIBC)			
																																		IRT		
														●																				Isopropanol (Isopropyl Alcohol)		
●	●						●	●																	●									Kappa Light Chain		
																																		Ketones		
																					●	●	●											Lactate (Lactic Acid)		
●	●																					○	○											Lambda Light Chain		
																					■	○	○											LAP-Arylamidase		
																																		LD Electrophoresis		
																																			LD-1	
																																			LD-1 Isoenzyme	
																																			LD-2	
																																			LD-3	
																																			LD-4	
																																			LD-5	
																					●	●	●											LDH (Total)		
			●																					●										LDL Cholesterol		
							●	●																	●			●	●						Lead	
																																			Leukocytes	
																																			LH	
																																			Lidocaine	
																						●	●	●											Lipase	
●		○																				●	●	●											Lipoprotein (a)	
																						●	●	●											Lithium	
																																			Lormetazepam	
																																			LSD	
																																			Lymphocytes (LYMPH)	
						●			●												●	●	●			●	●								Magnesium	
																												●								Mandelic Acid
																												●								Manganese
																																			Marijuana Metabolite	
																																			MDA	
																																			MDEA	
																																			MDMA	
																																			Mean Corpuscular Hemoglobin (MCH)	
																																			Mean Corpuscular Hemoglobin Concentration (MCHC)	
																																			Mean Corpuscular Volume (MCV)	
																																			Mean Platelet Volume (MPV)	
																																			Measles IgG	
																																			Meperidine	
									●																		●								Mercury	
									●																										Metanephrine	
									●																										Metanephrine (Total)	
																																			Methadone	
																																			Methadone Metabolite (EDDP)	

● 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

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42	43	31	21	48	34	32	35	35	33	52	51	43	54	70	19	44	25	26	20	20	31	30	29	36	72	34	71	72	24	71	70				
Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	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	Whole Blood Metals	Whole Blood Volatiles				
														●																	●	Methamphetamine			
																																●	Methanol (Methyl Alcohol)		
																																	Methaqualone		
																	●	●															Methemoglobin		
																																	Methotrexate		
																																	Methyprylon		
					●		●	●	●																●		●							Microalbumin	
								●																●										Microscopies (RBC, WBC, Crystals)	
																																		Mitochondrial	
																																		Mitotic Spindle Pattern	
																																		Monocytes (MONO)	
																																		Morphine (Free)	
																																		Morphine-3-β-d-Glucuronide	
																																		Mumps IgG	
																																		MXD	
																																		<i>Mycoplasma pneumonia</i> IgG	
																																		<i>Mycoplasma pneumonia</i> IgM	
																																		Myoglobin	
																	●	●																N-Acetylprocainamide (NAPA)	
																																		nDNA	
																																		<i>Neisseria gonorrhoeae</i>	
																			■															Netilmicin	
																				●														Neuron Specific Enolase (NSE)*	
																																		Neutrophils (NEUT)	
																												●							Nickel
																																		Nicotine	
							●	●																	●									Nitrite	
																																		Non-Treponemal Antibodies (Syphilitic Reagin)	
																																		Norclomipramine	
																																		Nordiazepam	
																																		Nordoxepin	
									●																									Norepinephrine	
									●																										

See page number

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	58	134	6166	19	30	29	44	73	39	38	38	39	50	50	46	47	74	43	70	32	21	51	52	53	53	47	48	50	40	22	17	18
	See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquant	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK/LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)
Pentobarbital			●																													
pH	●		◆																													
Phencyclidine (PCP)			●														▶															
Phenobarbital			●		●	●											▶														●	●
Phenol																	▶															
Phenothiazines																	▶															
Phenylalanine																																
Phenylglyoxylic Acid																																
Phenytoin					●	●											▶														●	●
Phenytoin (Free)																															●	●
Phospholipids						●																										
Phosphorus					●	●																										
Plasminogen																												●				
Plasma Renin Activity (PRA)																							✕							●		
Plateletcrit (PCT)																							●									
Platelets (PLT)																						●	●	●	●							
pO ₂	●																															
Porphyrins (Total)																																
Potassium	●				●	●																										
Prealbumin				○		○																										
Pregnancy (hCG)																																
Pregnanetriol																																
Primidone																	▶														●	●
Procainamide																	▶														●	●
Progesterone																					●										●	●
Prolactin																															●	●
Properdin Factor B																																
Propoxyphene			●														▶															
Propranolol																	▶														●	●
Protein (Total)					●	●						●																				
Protein C																												●				
Protein C (Functional)																																
Protein Electrophoresis					○	○						●																				
Protein S																												●				
Protein S (Functional)																																
Protein-to-Creatinine Ratio																																
Prothrombin Time (PT)													●															●				
PSA					○																										●	●
PSA (Free)																															●	●
Pseudocholinesterase						○																										
PTH-MM																															■	
Pyridinium Crosslinks (DPD + PYD)																																
Pyridinoline (PYD)																																
Pyrimidine																	▶															
Quinine																	▶														●	●
Reagin		●																														
Red Blood Cells (RBC)																						●	●	●	●							
Red Cell Distribution Width (RDW)																						●	●	●	●							
Red Cell Folate																																
Renin																													●			
Reticulocyte																																
Reticulocyte Count																																
Retinol Binding Protein (RBP)																																
Rheumatoid Factor																																

42	43	31	21	48	34	32	35	35	33	52	51	43	54	70	19	44	25	26	20	20	31	30	29	36	72	34	71	72	24	71	70	See page number			
Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	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	Whole Blood Metals	Whole Blood Volatiles				
							●	●	●															●		●						Pentobarbital			
																																pH			
																	●	●			●	●	●									Phencyclidine (PCP)			
																					●	●	●					●				Phenobarbital			
																																Phenol			
						●																											Phenothiazines		
																																	Phenylalanine		
																												●					Phenylglyoxylic Acid		
																	●	●			●	●	●										Phenytoin		
																	●	●															Phenytoin (Free)		
																					○		●										Phospholipids		
										●											●	●	●				●						Phosphorus		
																																	Plasminogen		
																																	Plasma Renin Activity (PRA)		
																																		Plateletcrit (PCT)	
																																		Platelets (PLT)	
																																		pO ₂	
									●																									Porphyrins (Total)	
●	●					●			●												●	●	●			●							Potassium		
							●	●	●								●						○		●	●							Prealbumin		
										■															●		●							Pregnancy (hCG)	
																	●	●															Pregnanetriol		
																	●	●															Primidone		
																	●	●															Procainamide		
																																		Progesterone	
																			●	●													Prolactin		
●																																		Properdin Factor B	
																	●	●															Propoxyphene		
●							●	●	●							●		●															Propranolol		
																					●	●	●	●		●							Protein (Total)		
																																		Protein C	
																	●				○	○	○										Protein C (Functional)		
																																		Protein Electrophoresis	
																																		Protein S	
							●	●																	●									Protein S (Functional)	
																																		Protein-to-Creatinine Ratio	
																																		Prothrombin Time (PT)	
																			●	●														PSA	
																																		PSA (Free)	
																					○													Pseudocholesterase	
																																		PTH-MM	
																										●								Pyridinium Crosslinks (DPD + PYD)	
																										■								Pyridinoline (PYD)	
																	●	●																Pyrimidine	
																																		Quinidine	
																																		Quinine	
								●																	●									Reagin	
																																		Red Blood Cells (RBC)	
																													●						Red Cell Distribution Width (RDW)
																																			Red Cell Folate
										●	●																								Renin
										●	●																								Reticulocyte
										●	●																								Reticulocyte Count
●	●																																		Retinol Binding Protein (RBP)
●	●											●																							Rheumatoid Factor

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	See page number			58	134	6/66	19	30	29	44	73	39	38	38	39	50	50	46	47	74	43	70	32	21	51	52	53	53	47	48	50	40	22	17	18	
				See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquial	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK/LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)	
RNP										●																										
Rubella Virus IgG					●																															
Rubella Virus IgM					●																															
Rubeola Virus (Measles) IgG					●																															
S-100																																				
Salicylate								●	●											▶														●	●	
Sci-70										●																										
Secobarbital						●														▶																
Sedimentation Rate (ESR)																																				
Selenium																																				
Serotonin																																				
SHBG																																			○	□
Sirolimus																																				
Sm										●																										
Smooth Muscle										●																										
Sodium		●						●	●																											
Soluble Transferrin Receptor (sTfR)																																				
Somatomedin-C																																			■	○
Specific Gravity						◆																														
Speckled Pattern										●																										
SS-A										●																										
SS-B										●																										
Syphilis RPR			●																																	
T3 (Free)								○																											●	●
T3 (Total)								●	●																										●	●
T3 Uptake/T Uptake								●	●																										●	●
T4 (Free)								○	●																										●	●
T4 (Total)								●	●																										●	●
Tacrolimus (FK 506)																																				
TBG									○																										●	○
Testosterone																								●											●	●
Testosterone (Free)																																			●	●
Thallium																																				
THC Metabolite						●																														
Theophylline								●	●											▶															●	●
Thrombin Time (TT)																●																●				
Thyroglobulin (Tg)																																			■	○
Tissue Polypeptide Antigen (TPA)																																				
Tobramycin								●	●											▶															●	●
Total CK													●	●																						
Toxoplasma gondii IgG			●																																	
Toxoplasma gondii IgM			●																																	
Transferrin							●	○	○																											
Trazodone											●									▶																
Treponema pallidum (Syphilis) IgG			●																																	
Treponema pallidum (Syphilis) IgM			●																																	
Trichloroacetic Acid																																				
Tricyclic Antidepressants				●							●																									
Tricyclic Antidepressants (TCA) Screen																																			●	●
Triglycerides								●	●																											
Troponin I												●	●	●																						
Troponin T												●	●	●																						
Trypanosoma cruzi			●																																	
TSH							●	●	●																										●	●
Unconjugated Estriol (UE3)																																				

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42	43	31	21	48	34	32	35	35	33	52	51	43	54	70	19	44	25	26	20	20	31	30	29	36	72	34	71	72	24	71	70	
Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	Spinal Fluid	TDM (Liquid)	TDM (Lyophilized)	Tumor Marker (Liquid)	Tumor Marker Plus (Lyophilized)	Unassayed Chemistry (Liquid)	Unassayed Chemistry (Lyophilized)	Unassayed Multiquant	Urinalysis	Urine Bone Markers	Urine Chemistry	Urine Metals	Whole Blood	Whole Blood Immunosuppressant	Whole Blood Metals	Whole Blood Volatiles	
																																RNP
																																Rubella Virus IgG
																																Rubella Virus IgM
																																Rubeola Virus (Measles) IgG
																																S-100*
																																Salicylate
																																Scl-70
																																Secobarbital
																																Sedimentation Rate (ESR)
																																Selenium
																																Serotonin
																																SHBG
																																Sirolimus
																																Sm
																																Smooth Muscle
																																Sodium
																																Soluble Transferrin Receptor (sTfR)
																																Somatomedin-C
																																Specific Gravity
																																Speckled Pattern
																																SS-A
																																SS-B
																																Syphilis RPR
																																T3 (Free)
																																T3 (Total)
																																T3 Uptake/T Uptake
																																T4 (Free)
																																T4 (Total)
																																Tacrolimus (FK 506)
																																TBG
																																Testosterone
																																Testosterone (Free)
																																Thallium
																																THC Metabolite
																																Theophylline
																																Thrombin Time (TT)
																																Thyroglobulin (Tg)
																																Tissue Polypeptide Antigen (TPA)
																																Tobramycin
																																Total CK
																																<i>Toxoplasma gondii</i> IgG
																																<i>Toxoplasma gondii</i> IgM
																																Transferrin
																																Trazodone
																																<i>Treponema pallidum</i> (Syphilis) IgG
																																<i>Treponema pallidum</i> (Syphilis) IgM
																																Trichloroacetic Acid
																																Tricyclic Antidepressants
																																Tricyclic Antidepressants (TCA) Screen
																																Triglycerides
																																Troponin I
																																Troponin T
																																<i>Trypanosoma cruzi</i>
																																TSH
																																Unconjugated Estriol (UE ₃)

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	See page number										58	134	6/66	19	30	29	44	73	39	38	38	39	50	50	46	47	74	43	70	32	21	51	52	53	53	47	48	50	40	22	17	18	
		See Blood Gas Chart	See Infectious Disease Chart	See Urine Toxicology Charts	Anemia	Assayed Chemistry	Assayed Multiquant	Autoimmune	Benzo/TCA (Sets A & B)	Cardiac Markers LT, Level Low	Cardiac Markers Plus	Cardiac Markers Plus LT	CK /LD Isoenzyme	Coagulation	D-dimer	Diabetes (Liquid)	Diabetes (Lyophilized)	Drug Free Serum	Elevated CRP	Endocrine	Ethanol/Ammonia	Fertility	Hematology (A)	Hematology (C)	Hematology-16	Hematology-16T	Hemoglobin A1C Linearity Set	Hemoglobin A2	Hemostasis	Homocysteine	Hypertension Markers	Immunoassay Plus (Liquid)	Immunoassay Plus (Lyophilized)										
Urea						●	●																																				
Urea Nitrogen						●	●																																				
Uric Acid						●	●																																				
Urobilinogen																																											
Uroporphyrins																																											
Valproic Acid						●	●											▶																					●	●			
Valproic Acid (Free)																																							●	●	●		
Vancomycin						●												▶																					●	●			
Varicella Zoster Virus (VZV) IgG			●																																				●	●			
Vitamin B12					●	○	○																																●	●			
VMA																																											
Volume Percent Oxygen																																											
Volume Percent Oxygen Capacity																																											
West Nile Virus IgG			●																																								
West Nile Virus IgM			●																																								
White Blood Cells (WBC)																								●	●	●	●																
Zinc						○	●																																				

42	43	31	21	48	34	32	35	35	33	52	51	43	54	70	19	44	25	26	20	20	31	30	29	36	72	34	71	72	24	71	70	See page number		
Immunology (Liquid)	Immunology Plus (Lyophilized)	Lipids	Maternal Serum	Meter Trax	Microalbumin	Pediatric	qUAntify	qUAntify Plus	Quantitative Urine	Reticulocyte	Reticulocyte (A)	Rheumatoid Factor	Sedimentation Rate	Serum Volatiles	Specialty Immunoassay	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	Whole Blood Metals	Whole Blood Volatiles			
									●												●	●	●			●						Urea		
									●												●	●	●			●						Urea Nitrogen		
							●	●													●	●	●			●						Uric Acid		
																								●									Urobilinogen	
									●																								Uroporphyrins	
																	●	●			●	●	●										Valproic Acid	
																	●	●			●	●											Valproic Acid (Free)	
																																		Vancomycin
																																		Varicella Zoster Virus (VZV) IgG
																					○	○	○										Vitamin B ₁₂	
									●																									VMA
																																		Volume Percent Oxygen
																																		Volume Percent Oxygen Capacity
																																		West Nile Virus IgG
																																		West Nile Virus IgM
								●															●											White Blood Cells (WBC)
									■												●	○	●				●						Zinc	

● 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

V

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External Quality Assurance Services (EQAS) Analyte Index

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	94	94	98	98	96	96	96	96	97	95	95
	Clinical Chemistry	Clinical Chemistry (Monthly)	Hematology	Hemoglobin	Immunoassay Program 1	Immunoassay Program 2	Immunoassay Program 3	Immunoassay Program 4	Immunoassay (Monthly)	Therapeutic Drug Monitoring	Urine Chemistry
5-Hydroxyindoleacetic Acid (HIAA)											●
17- α -OH-Progesterone					●				●		
α -1 Acid Glycoprotein						●					
α -1 Antitrypsin						●					
α -2 Macroglobulin						●					
α -Hydroxybutyrate Dehydrogenase (HBDH)	●										
β -2 Microglobulin						●		●			
γ -Glutamyl Transferase (GGT)	●	●									
Acetaminophen										●	
Acid Phosphatase, Prostatic (PAP)	●						●				
Acid Phosphatase (Total)	●										
Alanine Aminotransferase (ALT/SGPT)	●	●									
Albumin	●	●				●					
Aldosterone					●						●
Alkaline Phosphatase (ALP)	●	●									
Alphafetoprotein (AFP)				●			●	●			
Aluminum	●										
Amikacin										●	
Amitriptyline										●	
Amylase (Pancreatic)		●									
Amylase (Total)	●	●									
Angiotensin Converting Enzyme (ACE)					●						
Antistreptolysin O (ASO)						●					
Aspartate Aminotransferase (AST/SGOT)	●	●									
Bicarbonate (CO ₂)	●	●									
Bilirubin (Direct)		●									
Bilirubin (Total)	●	●									
C-Reactive Protein (CRP)						●					
CA 15-3							●	●			
CA 19-9							●	●			
CA 125							●	●			
Caffeine										●	
Calcium (Ionized)		●									
Calcium (Total)	●	●									●
Carbamazepine								●	●		
Carcinoembryonic Antigen (CEA)							●	●			
Ceruloplasmin						●					
Chloride	●	●									●
Cholesterol (HDL)	●	●									
Cholesterol (Total)	●	●									
Complement C3						●					
Complement C4						●					
Copper	●										
Cortisol	●				●				●		
Cortisol (Free)											●
Creatine Kinase (CK)	●	●									
Creatinine	●	●									●
Cyclosporine										●	
DHEA-Sulfate					●			●			
Digoxin					●			●	●		
Dopamine											●
Epinephrine											●
Estradiol					●			●			
Estrinol (Total)					●						
Estrinol (Unconjugated) (UE ₃)					●						

● Analyte present

See page number

	94	94	98	98	96	96	96	96	97	95	95
	Clinical Chemistry	Clinical Chemistry (Monthly)	Hematology	Hemoglobin	Immunoassay Program 1	Immunoassay Program 2	Immunoassay Program 3	Immunoassay Program 4	Immunoassay (Monthly)	Therapeutic Drug Monitoring	Urine Chemistry
Ethosuximide										●	
Ferritin					●				●		
Folate					●				●		
Follicle Stimulating Hormone (FSH)						●			●		
Free Thyroxine (FT ₄)					●				●		
Free Triiodothyronine (FT ₃)					●				●		
Gastrin						●					
Gentamicin										●	
Glucose	●	●									●
Haptoglobin							●				
hCG					●	●		●	●		
HDL Cholesterol	●	●									
Hematocrit (HCT)			●								
Hemoglobin A1C				●							
Hemoglobin A ₂				●							
Hemoglobin (Total)			●								
Hemoglobin (Total Glycated)			●								
hGH					●				●		
Homovanillic Acid (HVA)											●
Hydroxyproline (Total)											●
IgA							●				
IgE							●		●		
IgG							●				
IgM							●				
Insulin					●						
Intact PTH					●				●		
Iron	●	●									
Iron Binding Capacity, Total (TIBC)	●	●									
Lactate Dehydrogenase (LDH)	●	●									
LH						●			●		
Lipase		●									
Lithium	●	●								●	
Magnesium	●	●									●
Mean Corpuscular Hemoglobin (MCH)			●								
Mean Corpuscular Hemoglobin Concentration (MCHC)			●								
Mean Corpuscular Volume (MCV)			●								
Mean Platelet Volume (MPV)			●								
Metanephrine											●
Methotrexate										●	
Microalbumin											●
Norepinephrine											●
Normetanephrine											●
Nortriptyline										●	
Osmolality	●	●									●
Phenobarbital									●	●	
Phenytoin									●	●	
Phosphate	●	●									
Phosphorus											●
Platelets (PLT)			●								
Potassium	●	●									●
Prealbumin							●				
Primidone										●	
Progesterone					●				●		
Prolactin					●				●		
Prostatic Acid Phosphatase (PAP)	●						●				

See page number

● Analyte present

	94	94	96	96	96	96	96	97	95	95
	Clinical Chemistry	Clinical Chemistry (Monthly)	Hematology	Hemoglobin	Immunoassay Program 1	Immunoassay Program 2	Immunoassay Program 3	Immunoassay Program 4	Immunoassay (Monthly)	Therapeutic Drug Monitoring
										Urine Chemistry
Protein (Total)	●	●					●			●
PSA (Free)								●	●	
PSA (Free/Total Ratio)								●		
PSA (Total)								●	●	
Red Blood Cells (RBC)			●							
Red Blood Cell Distribution Width (RDW)			●							
Renin (Angiotensin 1)						●				
Renin (Direct)						●				
Rheumatoid Factor (RF)							●			
Salicylate									●	
SHBG						●				
Sodium	●	●								●
T3 Uptake/ T-Uptake				●						
Testosterone					●			●		
Theophylline								●	●	
Thyroid Stimulating Hormone (TSH)		●		●				●		
Thyroxine Binding Globulin (TBG)				●						
Thyroxine (T ₄), Total		●		●				●		
Tobramycin									●	
Transferrin				●						
Tricyclic Antidepressants (TCA) Screen									●	
Triglycerides	●	●								
Triiodothyronine (T ₃), Total		●		●				●		
Unconjugated Estriol (UE ₃)				●						
Urea	●	●								
Urea Nitrogen										●
Uric Acid	●	●								●
Valproic Acid								●	●	
Vancomycin									●	
Vanillylmandelic Acid (VMA)										●
Vitamin B ₁₂				●				●		
White Blood Cells (WBC)			●							
Zinc	●									

Molecular/Infectious Disease Controls Analyte Index

See page number

- Analyte present
- Negative for Analyte

A	Anti-Cytomegalovirus (CMV)																			
	Anti-HAV									●	●									
	Anti-HBc																			
	Anti-HBe																			
	Anti-HBs									●	●									
	Anti-HCV																			
	Anti-HDV																			
	Anti-HIV-1																			
	Anti-HIV-2																			
	Anti-HTLV-I																			
	Anti-HTLV-II																			
	B	<i>Borrelia burgdorferi</i> IgG																		
C	Chlamydia IgG														●					
	<i>Chlamydia trachomatis</i>	●	●	●		●		■												
E	<i>Cryptococcus neoformans</i> Ag										●	●								
	Cytomegalovirus (CMV) IgG												●							
	Cytomegalovirus (CMV) IgM													●						
	EBNA IgG																	●		
	EBV EA IgG																			
H	Epstein-Barr Virus (VCA) IgG												●					●		
	Epstein-Barr Virus (VCA) IgM																	●		
	HAV IgM																		●	
H	HBc IgM																			●
	HBeAg																			
	HBsAg																			
	HBV					●														
	HCV					●														
	<i>Helicobacter pylori</i> IgG													●			●			
	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															●				
M	HIV-1					●														
	HIV-1 Ag																			
	Human Papillomavirus (HPV)					●														
	Mumps Virus IgG																			
	<i>Mycoplasma pneumoniae</i> IgG															●				
N	<i>Mycoplasma pneumoniae</i> IgM															●				
	<i>Neisseria gonorrhoeae</i>	●	●	●				●	■											
R	Non-Treponemal Antibodies (Syphilitic Reagin)																			
	Rubella Virus IgG													●						
	Rubella Virus IgM														●					
S	Rubeola Virus (Measles) IgG																			
	Syphilis RPR													●						
T	<i>Toxoplasma gondii</i> IgG													●						
	<i>Toxoplasma gondii</i> IgM														●					
	<i>Treponema pallidum</i> (Syphilis) IgG													●						
	<i>Treponema pallidum</i> (Syphilis) IgM																			
	<i>Trypanosoma cruzi</i>																	●		
	Varicella Zoster Virus (VZV) IgG													●						
V	West Nile Virus IgG																			
	West Nile Virus IgM																			

Infectious Disease																			See page number	
83	82	81	80	80	80	81	90	86	87	87	84	84	90	85	85	81	88	86		84
Positive Controls														Negative Controls						
VIROTROL HBeAg	VIROTROL HIV-1 Ag	VIROTROL HIV-2	VIROTROL I	VIROTROL II	VIROTROL III	VIROTROL IV	VIROTROL Lyme	VIROTROL MuMZ	VIROTROL RPR Panel	VIROTROL Syphilis Total	VIROTROL ToRCH	VIROTROL ToRCH-M	VIROTROL WNV	Liquichek ToRCH Plus	Liquichek ToRCH Plus IgM	VIROCLEAR	VIROCLEAR EBV	VIROCLEAR MuMZ	VIROCLEAR ToRCH	
			●		●											■			Anti-Cytomegalovirus (CMV)	A
				●	●											■			Anti-HAV	
			●													■			Anti-HBc	
						●										■			Anti-HBe	
				●												■			Anti-HBs	
			●													■			Anti-HCV	
																■			Anti-HDV	
			●													■			Anti-HIV-1	
		●														■			Anti-HIV-2	
			●													■			Anti-HTLV-I	
																■			Anti-HTLV-II	
							●												<i>Borrelia burgdorferi</i> IgG	B
																			Chlamydia IgG	C
																			<i>Chlamydia trachomatis</i>	
																			<i>Cryptococcus neoformans</i> Ag	
											●								Cytomegalovirus (CMV) IgG	
												●			■				Cytomegalovirus (CMV) IgM	
																	■		EBNA IgG	E
																	■		EBV EA IgG	
														■			■		Epstein-Barr Virus (VCA) IgG	
																	■		Epstein-Barr Virus (VCA) IgM	
					●												■		HAV IgM	H
					●												■		HBc IgM	
●					●												■		HBeAg	
			●														■		HBsAg	
																			HBV	
																			HCV	
														■					<i>Helicobacter pylori</i> IgG	
											●	●		■					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	
	●																		HIV-1 Ag	
																			Human Papillomavirus (HPV)	
								●										■	Mumps Virus IgG	M
																			<i>Mycoplasma pneumoniae</i> IgG	
																			<i>Mycoplasma pneumoniae</i> IgM	
																			<i>Neisseria gonorrhoeae</i>	N
									●	●						■			Non-Treponemal Antibodies (Syphilitic Reagin)	
											●	●		■					Rubella Virus IgG	R
												●		■					Rubella Virus IgM	
								●										■	Rubeola Virus (Measles) IgG	
														■					Syphilis RPR	S
											●	●		■					<i>Toxoplasma gondii</i> IgG	T
												●			■				<i>Toxoplasma gondii</i> IgM	
										●				■		■			<i>Treponema pallidum</i> (Syphilis) IgG	
										●						■			<i>Treponema pallidum</i> (Syphilis) IgM	
																			<i>Trypanosoma cruzi</i>	
								●						■				■	Varicella Zoster Virus (VZV) IgG	V
													●						West Nile Virus IgG	W
													●						West Nile Virus IgM	

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149X	Cardiac Markers Plus Control LT (Liquichek), Level Low MiniPak	38
150	Hematology-16T Control (Liquichek), Trilevel	53
150X	Hematology-16T Control (Liquichek), Trilevel MiniPak	53
171	Diabetes Control (Liquichek), Level 1	46
172	Diabetes Control (Liquichek), Level 2	46
172X	Diabetes Control (Liquichek), Trilevel MiniPak	46
173	Diabetes Control (Liquichek), Level 3	46
180	Cardiac Markers Plus Control (Liquichek), Trilevel	38
180X	Cardiac Markers Plus Control (Liquichek), Trilevel MiniPak	38
181	Cardiac Markers Plus Control (Liquichek), Level 1	38
182	Cardiac Markers Plus Control (Liquichek), Level 2	38
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220	Maternal Serum Control (Lyphocheck), Trilevel	21
220X	Maternal Serum Control (Lyphocheck), Trilevel MiniPak	21
227	ToRCH Plus Control (Liquichek), Positive	85
227X	ToRCH Plus Control (Liquichek), Positive MiniPak	85
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228X	ToRCH Plus Control (Liquichek), Negative MiniPak	85
229	ToRCH Plus IgM Control (Liquichek), Positive	85
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239	ToRCH Plus Control (Liquichek), Positive	85
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254	Elevated CRP Control (Liquichek), Level 1	43
255	Elevated CRP Control (Liquichek), Level 2	43
255X	Elevated CRP Control (Liquichek), Trilevel MiniPak	43
256	Elevated CRP Control (Liquichek), Level 3	43
264	Reticulocyte Control (A) (Liquichek), Level 1	51
265	Reticulocyte Control (A) (Liquichek), Level 2	51
265X	Reticulocyte Control (A) (Liquichek), Trilevel MiniPak	51
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274	Whole Blood Immunosuppressant Control (Lyphocheck), Level 1	24
274X	Whole Blood Immunosuppressant Control (Lyphocheck), Level 1 MiniPak	24
275	Whole Blood Immunosuppressant Control (Lyphocheck), Level 2	24
275X	Whole Blood Immunosuppressant Control (Lyphocheck), Level 2 MiniPak	24
276	Whole Blood Immunosuppressant Control (Lyphocheck), Level 3	24
276X	Whole Blood Immunosuppressant Control (Lyphocheck), Level 3 MiniPak	24
277	Whole Blood Immunosuppressant Control (Lyphocheck), Level 4	24
277X	Whole Blood Immunosuppressant Control (Lyphocheck), Level 4 MiniPak	24
278	Whole Blood Immunosuppressant Control (Lyphocheck), Level 5	24
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305	Whole Blood Volatiles Control (Liquichek), Bilevel	70
305X	Whole Blood Volatiles Control (Liquichek), Bilevel MiniPak	70
313X	Assayed Chemistry Control (Lyphocheck), Bilevel MiniPak	30
323X	Unassayed Chemistry Control (Human) (Lyphocheck), Bilevel MiniPak (10 mL)	30
353X	Pediatric Control (Liquichek), Bilevel MiniPak	32

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355	Pediatric Control (Liquichek), Level 2	32	430X	Immunology Plus Control (Lyphocheck), Bilevel MiniPak	43
356	D-dimer Control (Liquichek), Level 1	50	435	Urinalysis Control (Liquichek), Bilevel	36
357	D-dimer Control (Liquichek), Level 2	50	435X	Urinalysis Control (Liquichek), Bilevel MiniPak	36
357X	D-dimer Control (Liquichek), Trilevel MiniPak	50	436	Urinalysis Control (Liquichek), Level 1	36
358	D-dimer Control (Liquichek), Level 3	50	437	Urinalysis Control (Liquichek), Level 2	36
360	Immunoassay Plus Control (Liquichek), Trilevel	17	438	Urine Toxicology Control (Liquichek), Level S1E	65
360X	Immunoassay Plus Control (Liquichek), Trilevel MiniPak	17	439	Urine Toxicology Control (Liquichek), Level S2E	65
361	Immunoassay Plus Control (Liquichek), Level 1	17	441	Urine Toxicology Control (Liquichek), Level C1	67
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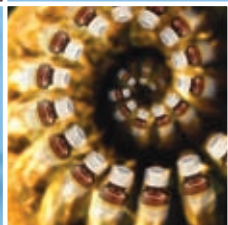
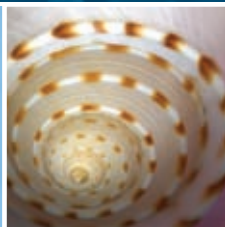
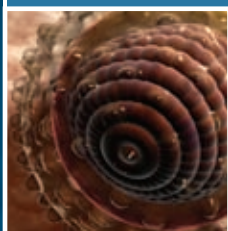
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