



Participate in an internationally recognized quality assessment program





Bio-Rad EQAS programs are fully accredited to help meet the regulatory needs of today's clinical laboratories.

External quality assessment programs are accepted around the world as invaluable tools used by laboratories to periodically monitor the performance of their test systems. Results are objectively compared to other laboratories using the same methodologies, instruments and reagents. When used in conjunction with daily quality controls, these external programs can give laboratories added confidence in reporting their patient test results.

As the worldwide leader in the development of quality control systems, participants in EQAS can benefit from the experience, knowledge and reliability that Bio-Rad has offered for more than 40 years.

Bio-Rad EQAS programs provide an independent and confidential external assessment of individual laboratory performance.

- Large international database with participants from over 110 countries
- Fully accredited to ISO/IEC 17043:2010 "Conformity assessment–General requirements for proficiency testing"
- Comprehensive, easy-to-read reports
- Technical support from experienced professionals
- Convenient electronic reporting options: EQAS Online and EQAS Mobile
- Each cycle includes 12 high quality samples together in one convenient shipment (except Hematology and Blood Typing Programs)
- Comprehensive analyte menus covering a wide range of diagnostic tests suitable for clinical labs and blood banks
- Analyte levels that challenge both normal and abnormal ranges
- Reference Method Values provided for select programs

EQAS Program Overview

Contact your Bio-Rad representative to place your order and receive a unique laboratory number Register your test methods Specimen Package is shipped to you

Getting Started

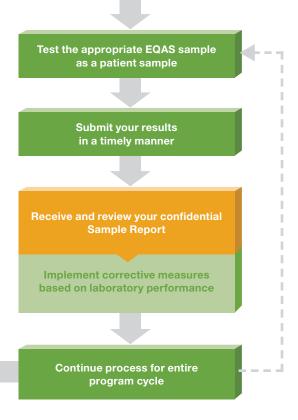
- Select and enroll in your desired EQAS programs
- Configure your lab information and register tests online or by using your smart phone
- Receive specimen package containing all twelve samples for a specific cycle (Hematology and Blood Typing samples are provided in multiple shipments)

Testing Samples and Submitting Data

- Each EQAS sample is uniquely numbered for easy identification
- Submit results on time; Blood Typing samples should be tested with results reported as soon as they are received
- Sample due dates are provided in a number of places including the sample label, product insert, EQAS Online and the EQAS Calendar on QCNet.com

Reviewing Reports and Troubleshooting

- Securely access your laboratory specific sample report online within three days of the statistical analysis
- A Certificate of Registration will accompany your Sample 1 Report
- For help interpreting your EQAS reports, view the tutorial on QCNet.com, or seek assistance from your knowledgeable Bio-Rad representative



Receive an End-of-Cycle Report*

Earn a Certificate of Achievement

*Provided for quantitative programs only.

Program Cycle Completion

- The End-of-Cycle Report provides an overall assessment of your laboratory's performance in terms of bias
- A Certificate of Performance lists all analytes that passed the performance criteria for the cycle
- A Certificate of Achievement is issued to you if a minimum amount of acceptable data has been submitted for the cycle





Online EQAS Resources

Access product information, product inserts and user documentation through www.QCNet.com. This secure website allows registered participants access to training material, including a Troubleshooting Checklist, reference method values and customer notifications. It also provides entry to EQAS Online, where you can manage your contact details and test configurations, submit your results and view or print all your EQAS reports.

Become a Registered QCNet User

Go to www.QCNet.com today and click on the Log In/Register link. Once you've completed the new user form, you will have access to all available EQAS tools.



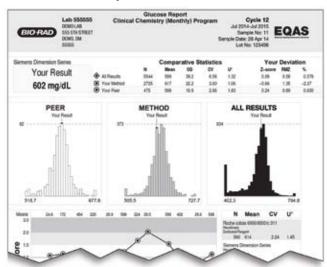
Submitting Results via EQAS Online/Mobile

Conveniently manage your laboratory's test configuration and submit results from any device with an internet connection.

EQAS Reports

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

Quantitative Reports



Sample Report

Detailed individual statistical analyses and peer group comparisons are provided.

Roche cobas INTEGRA (mmol/L)

End-of-Cycle Report

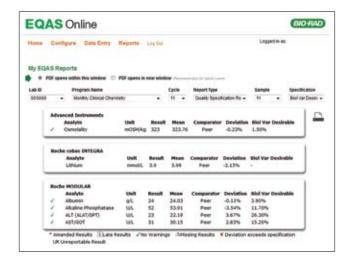
An overall assessment of laboratory performance over the entire cycle in terms of bias among participating laboratories is presented.

Qualitative Report



Sample Report

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



Quality Specification Report

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



EQAS Programs

Blood Gas Program



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

Analytes

Calcium (Ionized) Chloride Glucose Lactate (Lactic Acid) Magnesium

pCO₂ рН pO_2 Potassium Sodium

Blood Typing Program



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

Parameters

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

Pilot Analyte Antigen Typing

Cardiac Markers Program



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

Analytes

BNP CK-MB D-dimer Homocysteine hs-CRP

Myoglobin NT-proBNP Troponin I Troponin T

Clinical Chemistry (Monthly) Program



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

Analytes

Acid Phosphatase (Total) Alanine Aminotransferase (ALT/SGPT)

Albumin

Alkaline Phosphatase (ALP) Amylase (Pancreatic)

Amylase (Total)

Aspartate Aminotransferase (AST/SGOT)

Bile Acid Bilirubin (Direct) Bilirubin (Indirect) Bilirubin (Total) Calcium (Ionized) Calcium (Total)

Carbon Dioxide (CO₂)

Chloride

Cholesterol (HDL)

Cholesterol (LDL)

Cholesterol (Total)

Cholinesterase

Copper

Cortisol

Creatine Kinase (CK)

Creatinine

Gamma Glutamyl Transferase (GGT)

Glucose

Iron

Iron Binding Capacity, Total (TIBC)

Iron Binding Capacity, Unsaturated (UIBC) Lactate (Lactic Acid)

Lactate Dehydrogenase (LDH)

Lipase Lithium Magnesium Osmolality Phosphorus Potassium Protein (Total) Sodium

Thyroid Stimulating Hormone

(TSH)

Thyroxine (T4), Free Thyroxine (T4), Total Transferrin

Triglycerides

Triiodothyronine (T3), Free Triiodothyronine (T3), Total

Urea Nitrogen
Uric Acid
Zinc

Coagulation Program



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

Analytes

Antithrombin III (ATIII) APTT D-dimer

Factor VIII Fibrinogen INR Protein C Protein S PT

Thrombin Time (TT)
Von Willebrand Factor (vWF)

Ethanol/Ammonia Program



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

Analytes

Ammonia Ethanol

Hematology Program*



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

Parameters

Hematocrit (HCT) Hemoglobin

Mean Corpuscular Hemoglobin (MCH)

Mean Corpuscular Hemoglobin Concentration (MCHC)

Mean Corpuscular Volume (MCV)

Mean Platelet Volume (MPV)

Platelets (PLT) Red Blood Cells (RBC) Red Blood Cell Distribution Width (RDW) Red Blood Cell Distribution Width-SD (RDW-SD) White Blood Cells (WBC)

Hemoglobin Program



- Lyophilized, human whole blood based
- Includes HbA1C and HbA2
- 12-month cycle
- Submit results for the appropriate sample every month
- Reference Method Values provided for Hemoglobin A1C

Analytes

Hemoglobin A1C Hemoglobin A₂

Hemoglobin (Total Glycated)

HIV/Hepatitis Program



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

Analytes

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

Immunoassay (Monthly) Program



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

Analytes

11-Deoxycortisol 17-α-OH-Progesterone 25-OH Vitamin D β-2 Microglobulin ACE **ACTH**

Aldosterone Alphafetoprotein (AFP) Androstenedione C-Peptide

CA 15-3 CA 19-9 CA 27.29 CA 125

Carbamazepine Carcinoembryonic Antigen (CEA)

Cortisol

DHEA **DHEA Sulfate** Digoxin Estradiol Estriol, Free (UE₃)

Ferritin

Folate Follicle Stimulating Hormone (FSH)

Gastrin hCG hGH

Immunoglobulin E (IgE)

Insulin Intact PTH LH NSE

Phenobarbital Phenytoin

Plasma Renin Activity Progesterone

Prolactin PSA (Free)

PSA (Free/Total Ratio)

PSA (Total) Renin S100 Protein

Sex Hormone Binding Globulin

(SHBG) T3 Uptake T-Uptake Testosterone Theophylline Thyroglobulin (Tg) Thyroid Stimulating Hormone

(TSH)

Thyroxine Binding Globulin (TBG)

Thyroxine, Free (FT₄) Thyroxine (T4), Total

Transferrin

Triiodothyronine, Free (FT₃) Triiodothyronine (T3), Total

Valproic Acid Vitamin B₁₂

Pilot Analytes Calcitonin Fructosamine Testosterone (Free)

Lipids Program



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

Analytes

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

Pilot Analyte

Cholesterol (non-HDL)

Serum Proteins Program



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

Analytes

 α -1 Acid Glycoprotein α-1 Antitrypsin α-2 Macroglobulin β-2 Microglobulin . Albumin Antistreptolysin O (ASO)

C-Reactive Protein (CRP) Ceruloplasmin Complement C3 Complement C4 Haptoglobin Immunoglobulin A (IgA)

Immunoglobulin E (IgE) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Kappa Light Chain Lambda Light Chain Prealbumin

Protein (Total) Rheumatoid Factor (RF) Transferrin

Pilot Analyte Anti-DNase B

Syphilis/Chagas Program



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

Analytes

Non-Treponemal Antibodies Treponema pallidum IgG

Treponema pallidum Antibodies Trypanosoma cruzi Antibodies

Therapeutic Drug Monitoring Program



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

Analytes

Acetaminophen Amikacin Amitriptyline Caffeine Carbamazepine Cyclosporine Digoxin Ethosuximide Gentamicin Lithium Methotrexate

Nortriptyline Phenobarbital Phenytoin Primidone Salicylate Theophylline Tobramycin

Tricyclic Antidepressants (TCA) Screen

Valproic Acid Vancomycin

ToRCH/EBV/MuMZ Program



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

Analytes

Cytomegalovirus (CMV) IgG Cytomegalovirus (CMV) IgM Epstein-Barr Virus (EBNA) IgG Epstein-Barr Virus (VCA) IgG Epstein-Barr Virus (VCA) IgM Herpes Simplex Virus (HSV-1) IgG Herpes Simplex Virus (HSV-1/2) IgG Herpes Simplex Virus (HSV-2) IgG

Measles Virus (Rubeola) IgG Mumps Virus IgG Rubella Virus IgG Rubella Virus IgM Toxoplasma gondii (Toxo) IgG Toxoplasma gondii (Toxo) IgM Varicella Zoster Virus (VZV) IgG

Urinalysis Program



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

Analytes

Albumin Albumin-to-Creatinine Ratio Bilirubin Blood/Hemoglobin Creatinine Glucose Ketones Leukocytes

Nitrite рН Pregnancy (hCG) Protein (Total) Protein-to-Creatinine Ratio Specific Gravity Urobilinogen

Urine Chemistry Program



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

Analytes

5-Hydroxyindoleacetic Acid (5-HIAA) Calcium (Total) Chloride Cortisol (Free) Creatinine Dopamine

Epinephrine Glucose Homovanillic Acid (HVA) Magnesium Metanephrine Microalbumin (Albumin) Norepinephrine

Normetanephrine Osmolality Phosphorus Potassium Protein (Total) Sodium

Urea Nitrogen Uric Acid Vanillylmandelic Acid (VMA)

Pilot Analyte Urea

Ordering Information

Cat # Description	Cat # Description
Blood Gas Program*	Hemoglobin Program
BC31	BC80
Blood Typing Program*	HIV/Hepatitis Program
Sample Donor	1200081512 x 2 mL
12000837 Shipment A	Immunoassay (Monthly) Program
12000838 Shipment B	BC75
12000839 Shipment C	Lipids Program*
Cardiac Markers Program*	BC47
BC39	Serum Proteins Program
Clinical Chemistry (Monthly) Program	BC23
BC50	Syphilis/Chagas Program
Coagulation Program*	12000833
BC34	
Ethanol/Ammonia Program*	Therapeutic Drug Monitoring Program BC10
BC35	
Hematology Program*	ToRCH/EBV/MuMZ Program
BC90A Shipment A	12000825
BC90B Shipment B	Urinalysis Program
BC90C Shipment C3 x 2 mL	1200081012 x 12 mL
BC90D Shipment D3 x 2 mL	Urine Chemistry Program
	BC45

Refer to myeinserts.com or the package insert for current analyte claims.

'Aspects of the program are subcontracted from an approved supplier.

EQAS

An independent, external assessment of performance in comparison to your peers.

Independent QC

Ongoing, proactive, unbiased daily QC that helps identify errors as they occur or begin to trend.

QCNet.com/eqas QCNet.com/independentqc

Unity

QC Data Management tools that help you create a strategy to reduce risk and streamline QC workflow.

QCNet.com/datamanagement



Bio-Rad Laboratories, Inc. For further information, please contact the Bio-Rad office nearest you or visit our website at www.bio-rad.com/qualitycontrol

Clinical Diagnostics Group Website www.bio-rad.com/diagnostics Australia +61(2)9914-2800 Austria +43-1-877-8901 Belgium +32(3)710-53-00 Brazil +55(31)3689-6600 Canada 1-514-334-4372 China +86 21 6169 8500 Czech Republic +420-241-430-532 Denmark +45-4452-1000 Finland +358-9-804-22-00 France +33-1-47-95-60-00 Germany +49(0)89-318-840 Greece +30-210-7774396 Hong Kong +852-2789-3300 Hungary +36-1-459-6100 India +1800-180-1224 Israel +972-3-9536050 Italy +39-02-216091 Japan +81-3-6361-7070 Korea +82-2-3473-4460 Mexico +52(55)5488-7670 The Netherlands +31-318-540666 New Zealand +649-9-415-2280 Norway +47-23-38-41-30 Poland +48-22-3319999 Portugal +351-21-472-7700 Russia +7-495-721-1404 Singapore +65-6415-3170 South Africa +27-11-442-85-08 Spain +34-91-590-5200 Sweden +46-8-555-127-00 Switzerland +41(0)26-674-55-05/06 Taiwan +886-2-2578-7189 Thailand +662-651-8311 United Kingdom +44(0)20-8328-2000