2015 Oneworld Accuracy

Standardization + External Quality Assessment Programs

from Ministry of Health, Trinidad and Tobago - Collaboration Member

Oneworld Accuracy Collaboration

MINISTRY OF HEALTH, TRINIDAD AND TOBAGO

Oneworld Accuracy provides the convenience and efficiency of a digital informatics system. Laboratories may submit VQA data via the Internet. This allows them to monitor the entire VQA process online and in real time: including shipments, registration information, data submission, current and archived performance reports, and customized colour graphs that chart total error trending over multiple test events.

Oneworld Accuracy results are delivered via email or fax within days of the close of the test event. Fast turnaround time means VQA results can substantially influence patient outcomes and allow corrective actions in a timely and effective manner.

To facilitate standardization, multi-site laboratory organizations may access online customised reports that summarize network-wide performance.

Contact today to gain the Oneworld Accuracy advantage for your laboratory.

Oneworld Accuracy is a significant advance in VQA and a powerful new tool to ensure the accuracy of diagnostic testing for laboratories and their patients.

karlene.lewis@ttbs.org.tt | P 868.662.8827 ext 171/140 F 868.663.4335 | Trinidad and Tobago Bureau of Standards, Century Drive,Trincity Industrial Estate, Macoya, Tunapuna, TRINIDAD AND TOBAGO

2015 MINISTRY OF HEALTH, TRINIDAD AND TOBAGO ORDER FORM

PARTICIPANT INFORMATION

◯ Individual Participant ◯ Network with _____participants

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AUTHORIZATION

By placing your order you agree to the Standard Terms.

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◯ Check made payable to Ministry of Health, Trinidad and Tobago. Trinidad and Tobago Bureau of Standards, Century Drive,Trincity Industrial Estate, Macoya, Tunapuna, Trinidad and Tobago.

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2015 MINISTRY OF HEALTH, TRINIDAD AND TOBAGO ORDER FORM

Organization Name ______________________________ Oneworld Accuracy ID ____________________

PROGRAMS ORDERED

Subscription Options

Report only – Report additional sets of results using the same samples for free. Availability is subject to sample volume, stability, and suitability. Please see Subscription options.
Sample only – Receive 2nd sample set (without evaluation) for 90% of program price.
Off cycle subscription – This is a stand-alone subscription for 50% of EQA program price. You receive one set of samples for a single test event and submit one set of results for evaluation.
Validation subscription – This is a standalone subscription for the EQA program price prorated by the number of test events. You receive one set of survey-validated samples with an associated report of survey values, but do not submit results for evaluation.

To order one of these options, please write the Subscription options beside the Order Code | Program.

ORDER CODE | PROGRAM	PRICE	# SUBSCRIPTIONS | # ANALYZERS *	TOTAL
E.g. BCHE435 Chemistry/Immunoassay			

Subtotal	
Program Total	
PAYMENT AMOUNT	

REQUEST FOR QUOTE

LABORATORY INFORMATION

Participant Name _____ Department _____

Street/Road _____ House/Apt/LR. No _____

P. O. Box _____ Post Code _____

City _____ Country _____

Participant Contact _____ Designation _____

Phone _____ Fax _____

Email _____

* Please fax completed form to 868 663 4335 or e-mail to karlene.lewis@ttbs.org.tt.

CURRENT EQA TEST MENU (To provide you with a more accurate quote, please indicate the analytes tested)

CHEMISTRY

Liver

O All Below
O Total Bilirubin
O Direct Bilirubin
O ALT
O Alkaline Phosphate
O AST
O Albumin

Lipids

O All Below
O Total Cholesterol
O HDL
O Triglyceride
O LDL
O Apolipoprotein A1/B
O Lipoprotein (a)

Thyroid

O All Below
O T-Uptake
O T3
O Free T3
O T4
O Free T4
O TSH

Electrolytes

O All Below
O Sodium
O Chloride
O Potassium
O CO2

Tumor Markers

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

Immunoassay

O DHEA
O Estradiol
O Estriol
O Ferritin
O Folate serum
O FSH
O Glycohemoglobin
O Homocysteine
O LH
O Beta-2-microglobulin
O PAP
O Prealbumin
O Progesterone
O Prolactin
O PSA
O PSA - free
O Testosterone
O Transferrin
O Vitamin B12

Cardiac Markers

O Biosite
O All Other Methods
O Total CK
O CK-MB
O Total LDH
O Myoglobin
O Troponin I & T
O BNP
O NT-Pro BNP

Therapeutic Drugs

O Acetaminophen
O Amikacin
O Carbamazepine
O Digoxin
O Ethosuximide
O Gentamicin
O Lidocaine
O Lithium
O NAPA
O Phenobarbital
O Phenytoin
O Primidone
O Procainamide
O Quinidine
O Salicylates
O Theophylline
O Tobramycin
O Tricyclic Antidepressants
O Valproic Acid
O Vancomycin

Blood Gases

O pH, pCO2, pO2
O Electrolytes, Glucose, Lactate, ionized Ca++
O Urea / Creatinine
O CO-Oximetry
O Hematocrit
O Hemoglobin

REQUEST FOR QUOTE

Participant Name _____

Participant Contact _____

Urinalysis

O hCG (waived)
O Dipstick
O Microalbumin

Other Tests

O Alpha-fetoprotein
O Ammonia
O Amylase
O BUN
O Calcium
O Chemistry - Body fluid
O Chemistry - CSF
O Chemistry - Urine
O Cortisol
O Creatinine
O Ethanol
O Fecal Occult Blood
O Fetal Fibronectin
O Fructosamine
O Gastric Occult Blood
O GGT
O Glucose
O hCG, quantitative
O Iron
O Total Ketones qualitative / semi-quantitative
O Lactate
O Lipase
O Magnesium
O Neonatal Bilirubin
O Nitrazine Testing
O Osmolality
O Phosphorus
O Protein Electrophoresis
O Sweat Testing
O TIBC
O Total Protein
O Urine Drug Screen
O Uric Acid
O Whole Blood Glucose/hemoglobin

HEMATOLOGY

O Basic Hematology
O All 3 Parts Diff | Instrument: _____
O All 5 Parts Diff | Instrument: _____
O Blood Cell Identification
O Becton Dickinson QBC Hematology
O Sedimentation Rate
O Reticulocyte Count | Instrument: _____
O Body Fluid Cell Count
O Sickle Cell Screening
O Fetal Hemoglobin (Rosette, KB Stain)
O Lymphocyte Immunophenotyping

COAGULATION

O Activated Clotting Time | Instrument: _____
O Anti-Thrombin III
O D-Dimer | Kit: _____
O Plasma PT- Roche CoaguChek
O PT, APTT, Fibrinogen - Plasma
O Thrombin Time

ANDROLOGY

O Sperm Screen
O Sperm Count
O Antisperm Antibody
O Sperm Morphology
O Sperm Viability

BLOOD BANK

O ABO, Rh
O Antibody Screen
O Antibody Identification
O Compatibility Testing
O Direct Antiglobulin Testing

IMMUNOLOGY

O ANA (latex kits)
O ANA (non-latex kits)
O Anti-CMV
O Anti-HIV
O ASO
O C3 & C4
O C - Reactive Protein
O High Sensitivity C - Reactive Protein
O H. pylori
O hCG, Serum (qualitative)
O hCG, Urine (qualitative)
O Hepatitis Markers
O IgA, IgG, IgM, IgE, Alpha-1, Antitrypsin
O Infectious Mononucleosis
O Lyme Disease
O Mycoplasma
O RF
O Rubella
O Syphilis
O Toxoplasmosis antibody

CLINICAL MICROSCOPY

O Fecal White Cells
O KOH preparation (photos)
O Pinworm
O Nasal Smear
O Urine Sediment
O Vaginal Wet Prep
O Fern Test

MICROBIOLOGY

Antigen Detection

O Affirm VP
O Candida
O C. difficile Toxin
O Chlamydia - non-DNA methods
O Chlamydia - DNA methods
O Cryptococcus
O Influenza A & B
O Neisseria - all methods
O RSV
O Rapid Strep A
O Rotavirus

Cultures

O Blood
O Dermatophytes
O Ear
O Eye
O GC/Genital
O Mold
O Neisseria gonorrhoeae Screen
O Spinal fluid
O Sputum
O Stool
O Streptococcus A Screen
O Susceptibility
O Throat
O Urine Colony (no ID)
O Urine ID/Suscep/Grth./No Grth
O Wound
O Yeast

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O Gram stain
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O Parasitology

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Urinalysis

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eGFR Calculation
eGFR Monitoring
Hemoglobin A1c Baseline
Hemoglobin A1c Monitoring
Lipids Baseline
Lipids Monitoring
Liver Function Monitoring
Total Protein Monitoring

MATRIX INSENSITIVE CHEMISTRY EQA
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CHEMISTRY EQA
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Body Fluid Chemistry
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Fecal Occult Blood
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Ketones
Nitrazine
Rupture of Fetal Membrane
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Trace Elements - Urine
Tumor Markers
Urine Drugs of Abuse
Urine hCG
Urine Chemistry
Urinalysis
Urine Microalbumin
Urine Sediment
Whole Blood Glucose
Whole Blood Hemoglobin

POINT OF CARE EQA
Basic Cardiac Markers
Blood Gas/Electrolytes
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Rupture of Fetal Membrane
Urine Drugs of Abuse
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Fern Test
KOH Preparation
Nasal Smear
Pinworm Preparation
Vaginal Preparation

DIAGNOSTIC IMMUNOLOGY EQA
Antiphospholipid Autoimmunity
Rheumatologic Arthritis Autoimmunity
Anti-Neutrophil Cytoplasm Autoimmunity
Coeliac Disease
Organ Autoimmunity
Rheumatologic Autoimmunity
Thyroid Autoimmunity
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Anti-Nuclear Antibody
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Food Allergy
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CLINICAL SEROLOGY EQA
Viral Antigen Detection
EBV Serology
Hepatitis Serology
HIV
HIV Serology
HIV INSTI
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Herpes Simplex
HTLV Serology
Lyme Disease
Infectious Mononucleosis
Mycoplasma Antibody
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Syphilis Serology

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CMV DNA Qualitative & Viral Load
C. Trachomatis I N. Gonorrhoeae DNA Qualitative
HAV RNA & Parvovirus B19 DNA
HBV DNA Viral Load
HCV Genotyping
HCV RNA Viral Load
HCV RNA Qualitative
HIV-1 Genotypic Drug Resistance
HIV-1 RNA Viral Load
HSV-1/2 DNA Qualitative
HIV Tropism

BLOOD SCREENING EQA
CMV DNA Qualitative & Viral Load
HAV RNA & Parvovirus B19 DNA
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Multimarker Blood Screening NAT
Toxoplasma, Rubella and CMV Serology
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ANDROLOGY EQA
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Yeast Culture

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Malaria
Parasite Antigens
PVA Smear
Wet Mount

ONEWORLD ACCURACY COLLABORATION

When you participate in our programs, you support and advance the Oneworld Accuracy Collaboration, the largest and most successful collaboration of its kind in the world. Collaboration Members harmonize programs to the highest international standards using common samples, challenge formats and test event calendar and manage their respective programs on OASYS, a shared informatics system developed and hosted by the Collaboration Secretariat, the Oneworld Accuracy Group, based in Vancouver, Canada.

Collaboration Mission: to achieve universal testing accuracy for improved healthcare for all people.

Our mission is supported by your commitment to continual improvement in testing quality. Accordingly, if you have any suggestions for new programs or system features that can assist you, or if you know of any groups that might be interested in becoming a Collaboration Member, please let us know at secretariat@oneworldaccuracy.org.

The Collaboration has three types of Members. Harmonized Members are national groups that provide a comprehensive, harmonized program set. Associate Members are commercial groups that also provide a comprehensive, harmonized program set pending organization of national programs in their respective countries. Specialty Members are national groups with a specific mandate or academic focus that provide a specialty program set.

Harmonized Members

1. Oneworld Accuracy Group, Collaboration Secretariat (Vancouver, Canada)
2. AccuTest Proficiency Testing Services (Boston, USA)
3. Human Quality Assessment Services (Nairobi, Kenya)
4. Oneworld Accuracy Italia (Bologna, Italy)
5. Ethiopian Public Health Institute (Addis-Ababa, Ethiopia)
6. Centro Regionale Qualità Laboratori (Palermo, Italy)
7. Ministère de la Santé Publique de la Côte d'Ivoire (Abidjan, Côte d'Ivoire)
8. AfriQualab (Dakar, Sénégal)
9. Ministry of Health, Antigua & Barbuda (Saint John's, Antigua & Barbuda)
10. Ministry of Health, Barbados (Bridgetown, Barbados)

ONEWORLD ACCURACY COLLABORATION

11. Ministry of Health, Guyana (Georgetown, Guyana)

12. Ministry of Health, Jamaica (Kingston, Jamaica)

13. Ministry of Health, Saint Lucia (Castries, Saint Lucia)

14. Ministry of Health, Suriname (Paramaribo, Suriname)

15. Ministry of Health, Trinidad & Tobago (Port of Spain, Trinidad & Tobago)

16. Ministry of Health, Bahamas (Nassau, Bahamas)

17. Ministry of Health, Belize (Belmopan, Belize)

18. Ministry of Health, Dominica (Roseau, Dominica)

19. Ministry of Health, Grenada (St. George's, Grenada)

20. Ministry of Health, St. Kitts & Nevis (Basseterre, St. Kitts & Nevis)

21. Ministry of Health, St. Vincent & the Grenadines (Kingstown, St. Vincent & the Grenadines)

22. National Public Health Reference Laboratory (Accra, Ghana)

23. Laboratoire National de Santé Publique Haïti (Port au Prince, Haïti)

24. National Reference Laboratory Rwanda (Kigali, Rwanda)

Associate Members

25. Oneworld Accuracy Chinese Taipei

26. Oneworld Accuracy Portugal

27. Oneworld Accuracy Türkiye

28. Oneworld Accuracy España

29. Oneworld Accuracy United Arab Emirates

30. Oneworld Accuracy India

31. Oneworld Accuracy Saudi Arabia

32. Oneworld Accuracy Panamá

33. Oneworld Accuracy Costa Rica

34. Oneworld Accuracy El Salvador

35. Oneworld Accuracy Guatemala

36. Oneworld Accuracy Honduras

37. Oneworld Accuracy România

ONEWORLD ACCURACY COLLABORATION

Specialty Members

38. NRL (Melbourne, Australia)

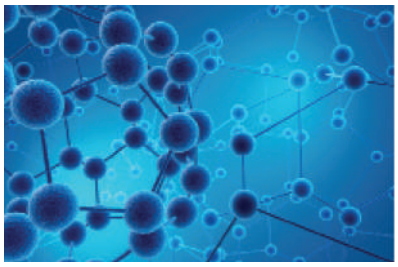
39. Thistle QA (Johannesburg, South Africa)

40. National HIV and Retrovirology Laboratories, Public Health Agency of Canada (Ottawa, Canada)

41. STI AIDS Cooperative Central Laboratory (Manila, Philippines)

42. China International Transfusion Infection Control, Shanghai Blood Services (Shanghai, China)

SCIENCE ARCHITECTS



Science(n);

from Latin *scientia* meaning "knowledge" is a systematic enterprise that builds and organizes knowledge in the form of testable explanations and predictions about the world.

+

Architect(n);

from Latin *architectus*, derived from Greek arkhtekton meaning "chief builder" is a person or group responsible for the planning, design and construction oversight of complex systems.

= Science Architect

The Oneworld Accuracy Collaboration features programs that embed the science of leading medical and laboratory science specialists worldwide. These groups are called Science Architects and they take the lead in the planning, design and oversight of programs within their domain of expertise. This includes selection and procurement of clinically relevant samples and design of key online program flows, such as registration, submitting results, evaluation criteria and performance reports and graphs. Science Architects stay abreast of leading and emerging clinical and laboratory trends so that their programs remain current.

The Science Architect concept is unique to the Collaboration. It means that participants gain access to the leading science of many Science Architects within a single suite of programs on a single informatics system. The Collaboration wants to reach out to new potential Science Architects worldwide so their expertise can be incorporated into new best-of-breed programs.

If you know of any group that might be interested or qualified in becoming a Science Architect, please let us know at secretariat@oneworldaccuracy.org.

CEQAL - SCIENCE ARCHITECT

CEQAL
THE TRUE MEASURE OF QUALITY

CEQAL (the Canadian External Quality Assessment Laboratory) was established in 1988 out of research efforts within the Department of Pathology and Laboratory Medicine at the University of British Columbia with a mission to serve as an accuracy base for the standardization of lipid testing in Canada.

CEQAL operates a Reference Method Laboratory (see CEQAL Reference Methods) and is based in Vancouver, British Columbia, Canada. CEQAL is a member of the Cholesterol Reference Method Laboratory Network (CRMLN), an international network of eight Reference Method Laboratories that serve as the accuracy base worldwide for lipid measurements. CRMLN operates under the aegis of the US Centers for Disease Control and Prevention (CDC) and the National Heart, Lung and Blood Institutes.

CEQAL's laboratory processes have been documented and standardized to meet CRMLN operating requirements. CEQAL's operations are also monitored by the International Federation of Clinical Chemistry - Joint Committee on Traceability in Laboratory Medicine (IFCC – JCTLM).

CEQAL has been a Collaboration member since inception in 2000 and serves as the Science Architect for Standardization Programs and Matrix Insensitive Chemistry EQA Programs. CEQAL's lead in the design and science of these Programs includes the collection of fresh human test samples that eliminate or minimize matrix effects as well as the operation of Reference Methods that are used to assign reference value targets in support of those Programs.

CEQAL's scientific efforts are focused upon research and development of new Standardization Programs, new reference target methodologies and the design of comprehensive quality assurance systems to support traceably accurate testing performed on point-of-care devices.

As well, CEQAL's reference methods are routinely used by instrument manufacturers for the calibration of their analytical systems and for the assignment of target values to commutable testing samples for confirmation of accuracy transfer to field methods.

CEQAL REFERENCE METHODS

CEQAL
THE TRUE MEASURE OF QUALITY

CEQAL operates the following Reference Methods, which are used to assign reference value targets in support of Standardization Programs and Matrix Insensitive Chemistry EQA Programs. Analytes with reference value targets are indicated by this icon :

Apolipoprotein A1 and Apolipoprotein B

LIPD763 | LIPD733

These analyses are performed at the Northwest Lipid Metabolism and Diabetes Research Laboratories, University of Washington, Seattle WA. The Siemens-Behring BNII nephelometer is calibrated using in-house calibration materials that are traceable to the WHO/IFCC International Reference Materials SP1-01 for apolipoprotein A1 and SP3-07 for apolipoprotein B. Assay precision is monitored using in-house IQC with low, medium and high levels of Apo A1 and Apo B and values assigned against the WHO/IFCC Reference materials.

Marcovina SM, Albers JJ, Henderson LO, Hannon WH. International Federation of Clinical Chemistry standardization project for measurement of apolipoproteins. III Comparability of apo A-1 values by use of common reference material. Clin Chem 1993;39:773-778

Marcovina SM, Albers JJ, Kennedy H et al. International Federation of Clinical Chemistry standardization project for measurement of apolipoproteins A-1 and B. IV: Comparability of apo B values using international reference materials. Clin Chem 1994;40:586-592

Bilirubin (Total)

CHEM463 | CHEM433 | LIVM733 | NEOB435

This reference method is based upon the Jendrassik-Grof principle as developed by Doumas et al. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS6-A).

Doumas BT, Perry BW, Bayse DD et al. A candidate reference method for the determination of bilirubin in serum, test for transferability. Clin Chem 1983; 29:297-301.

Doumas BT, Kwok-Cheung PP, Perry BW et al. Candidate reference method for determination of total bilirubin in serum: development and validation. Clin Chem 1985; 21:1779-1789.

CEQAL REFERENCE METHODS

Chloride

CHEM463 | CHEM433

This reference method is based upon the coulometric generation of silver ions and the amperometric indication of the endpoint (Cotlove method). The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS10-P).

Velapoldi RA, Paule RC, Schaffer R et al. A reference method for the determination of chloride in serum. NBS special publication 260-67. US Department of Commerce/National Bureau of Standards, Washington, DC 1979.

Cholesterol, Total

CHOL726 | LIPB713 | LIPD763 | LIPD733

This reference method is based upon the Abell, Levy, Brodie and Kendall method as modified by the Centers for Disease Control and Prevention. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS3-A).

Abell LL, Levy BB, Brodie RB, Kendall RB. Simplified method for the estimation of total cholesterol in serum and demonstration of its specificity. J Biol Chem 1952;195:357-366.

Duncan IW, Mather A, Cooper GR. The procedure for the proposed cholesterol reference method. Atlanta, GA: Centers for Disease Control and Prevention, 1982.

Serum Creatinine

GFRB716 | GFRM7123 | GFRM733 | GFRR733

Serum creatinine is measured in human serum using a recognized isotope dilution gas chromatograph mass spectrometry methodology as carried out in collaboration with a credentialed laboratory. The method is used for certification of the CRMs (Certified Reference Materials) for creatinine from BCR (Community Bureau of Reference of the Commission of the European Communities).

Stöckl D, Reinauer H. Candidate reference methods for the determination of target values for cholesterol, creatinine, uric acid and glucose in external quality assessment and internal accuracty control. I.Method setup. Clin Chem 1993;39:993-1000

Thienpont LM,,DeLeenheer AP, Stöckl D, Reinauer H. Candidate reference methods for the determination of target values for cholesterol, creatinine, uric acid and glucose in external quality assessment and internal accuracy control. II. Method transfer. Clin Chem 1993;39:1001-6

Thienpont LM, Van Nieuwenhove B, Stöckl D, Reinauer H, De Leenheer AP. Determination of reference method values by isotope dilution-gas chromatography/mass spectrometry: a five years' experience of two European reference laboratories. Eur J Clin Chem Clin Biochem 1996;34:853-60

CEQAL REFERENCE METHODS

Glucose

CHEM463 | CHEM433

This reference method is based upon the hexokinase/glucose-6-phosphate dehydrogenase method as developed by the Glucose Committee of the American Association for Clinical Chemistry and the Centers for Disease Control and Prevention. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS1-A).

Neese JW, Duncan P, Bayse DD et al. Development and evaluation of a hexokinase/glucose-6-phosphate dehydrogenase procedure for use as a national glucose reference method. HEW Publication No. (CDC) 77-8330. HEW. USPHS, Centers for Disease Control and Prevention, 1976.

Neese JW, Duncan P, Bayse DD et al. Development and evaluation of a hexokinase/glucose-6-phosphate dehydrogenase procedure for use as a national glucose reference method. Clin Chem 1974;20:878.

Glycated Hemoglobin

GHBB713 | GHGB733

Glycated haemoglobin target values are assigned by the Diabetes Diagnostics Laboratory at the University of Missouri, which served as the core laboratory for the measurement of glycated haemoglobin in the Diabetes Control and Complications Trial (DCCT), and is a reference laboratory in the National Glycohaemoglobin Standardization (NGSP) network.

The Diabetes Control and Complications Research Group: The effect of intensive treatment of diabetes on the development and progression of long-term complications in insulin-dependent diabetes mellitus. N Engl J Med 1993: 29:977-986.

HDL Cholesterol (Designated Comparison Method)

For manufacturers only

This method of higher order uses dextran sulphate (molecular weight 50,000 Daltons) as a precipitant. All lipoproteins except high density lipoprotein cholesterol are precipitated. High density lipoprotein cholesterol in the supernatant is measured by the Abell-Kendall cholesterol reference method. This method is traceable to the Centers for Disease Control and Prevention high density lipoprotein cholesterol ultracentrifugation reference method.

Kimberly MM, Leary ET, Cole TG, Waymack PP for the Cholesterol Reference Method Laboratory Network. Selection, validation, standardization, and performance of a designated comparison method for HDL-cholesterol for use in the Cholesterol Reference Method Laboratory Network. Clin Chem 1999, 45:1803-1812.

CEQAL REFERENCE METHODS

HDL Cholesterol (Ultracentrifugation)

LIPB713 | LIPD763 | LIPD733

This reference method measures high density lipoprotein cholesterol after first removing very low density lipoproteins and chylomicrons by ultracentrifugation. Subsequently low density lipoproprotein cholesterol is precipitated by heparin manganese and the cholesterol in the supernatant is then quantified by the Abell-Kendall cholesterol reference method. The procedure is used at the Centers for Disease Control and Prevention to assign high density lipoprotein cholesterol target values to human-based serum pools and is considered the definitive high density lipoprotein cholesterol reference method for calibrating and checking the accuracy of routine methods. This method is traceable to the Centers for Disease Control and Prevention high density lipoprotein cholesterol ultracentrifuge reference method.

Hainline A, Karon J, Lippel K eds. Manual of laboratory operations. In: Lipid Research Clinics Program, Lipid and lipoprotein analysis, 2nd ed. US Department of Health and Human Resources, Bethesda, MD.1982.

LDL Cholesterol β-Quantification

LIPB713 | LIPD763 | LIPD733

Low density lipoprotein cholesterol is determined after ultracentrifugation as detailed for HDL (high density lipoprotein) cholesterol by ultracentrifugation. The cholesterol content of the infranatant (which contains both LDL and HDL cholesterol) is measured and the low density lipoprotein cholesterol content is calculated as the difference after high density lipoprotein cholesterol has been measured. This method is traceable to the Centers for Disease Control and Prevention β-quantification reference method.

Hainline A, Karon J, Lippel K eds. Manual of laboratory operations. In: Lipid Research Clinics Program, Lipid and lipoprotein analysis, 2nd ed. US Department of Health and Human Resources, Bethesda, MD.1982.

Potassium

This reference method is based upon the flame atomic emission spectrometry method for measuring potassium in serum as developed cooperatively by the National Institute of Standards and Technology and the Centers for Disease Control and Prevention. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS8-P).

Velapoldi RA, Paul RC, Schaffer R et al. A reference method for the determination of potassium in serum. NBS special publication 260-63. US Department of Commerce/National Bureau of Standards, Washington, DC 1978. 2nd ed. US Department of Health and Human Resources, Bethesda, MD.1982.

CEQAL REFERENCE METHODS

Protein (Total)

CHEM463 | CHEM433 | TPRM733

This reference method is based upon the biuret reaction and as developed, validated and tested for transferability by Doumas et al. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS5-A2).

Doumas BT, Bayse DD, Carter RJ et al. A candidate reference method for determination of total protein in serum. I. Development and validation. Clin Chem 1981;27:1642-1650.

Doumas BT, Bayse DD, Carter RJ et al. A candidate reference method for determination of total protein in serum. II. Test for transferability. Clin Chem 1981;27:1651-1654.

Sodium

This reference method is based upon the flame atomic emission spectrometry method for measuring sodium in serum as developed cooperatively by the National Institute of Standards and Technology and the Centers for Disease Control and Prevention. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS7-P).

Velapoldi RA, Paul RC, Schaffer R et al. A reference method for the determination of sodium in serum. NBS special publication 260-60. US Department of Commerce/National Bureau of Standards, Washington, DC 1978.

Therapeutic Drug Monitoring

THDM463 | THDM433

All drugs are targeted gravimetrically. This method is considered to be more accurate and precise than methods in routine use, but has not been subjected to a credentialing process.

Total and Net Triglycerides (Method of Higher Order)

LIPB713 | LIPD763 | LIPD733

Net triglycerides are determined using a two step glycerol phosphate oxidase (GPO) reaction, with and without lipase. This method is used by CRMLN members and is traceable to the original CDC reference method. The original CDC reference method involves organic extraction of triglyceride followed by chemical determination of glycerol. There is no reference method for the determination of free glycerol. The level of free glycerol is determined in this sample by a non-standardized enzymatic method which is traceable to CDC gas chromatography-isotope dilution-mass spectrometry (GC-IDMS) method. The CDC has replaced the reference method with GC-IDMS analysis of Total Glycerides. The CRMLN enzymatic method is still monitored by the CDC.

Klotzsch SG, McNamara JR. Clin Chem 1990:36:1605-13

CEQAL REFERENCE METHODS

Urea

CHEM463 | CHEM433 | URCR435 | URCR432

This reference method is based upon the coupled enzyme reaction of urease and glutamate dehydrogenase. The method was developed, validated and tested for its transferability. The method and materials have been credentialed and approved by the National Reference System for the Clinical Laboratory, National Committee for Clinical Laboratory Standards (Document RS11-P).

Sampson EJ et al. A coupled-enzyme equilibrium method for measuring urea in serum: optimization and evaluation of the AACC study group on urea candidate reference method. Clin Chem 1980; 26:816-826.

CMPT-SCIENCE ARCHITECT

cmpt clinical microbiology proficiency testing

CMPT (Canadian Microbiology Proficiency Testing) is an active program of the Department of Pathology & Laboratory Medicine, University of British Columbia (UBC). CMPT operates a Medical Microbiology Research and Development Laboratory within the UBC campus in Vancouver, British Columbia, Canada.

Since inception, CMPT has maintained its focus on fulfilling its Mission Statement: Innovation, Education, Quality Assessment and Continual Improvement.

CMPT was created in 1983 as a regional microbiology EQA program for southwest British Columbia. It has since evolved into a cross-Canada program with international outreach. Today CMPT provides EQA programs in bacteriology, mycology and enteric parasitology to all laboratories in most Canadian provinces as well as EQA programs for drinking and recreational water to public health and water testing laboratories across the country.

CMPT is widely acknowledged as the principal microbiology EQA provider in Canada and a leader internationally in microbiology quality improvement and education. CMPT is voluntarily compliant with ISO 17025: 2004 and ISO 9001: 2008. Since 2004, CMPT's quality management system has been regularly assessed and certified by QMI-SAI Global. CMPT has been a Collaboration member since 2011 and serves as the Science Architect for some Bacteriology, Mycology and Mycobacteriology EQA Programs.

CMPT's focus on education and continual improvement is reflected in the design of its EQA programs. Many providers use lyophilized samples and narrowly conceive of EQA as measure of their participants' technical accuracy compared with their inter-laboratory peers. By contrast, CMPT uses fresh samples that closely simulate typical clinical samples. As well, CMPT's EQA more expansively assesses their participants' whole pre-examination, examination and post-examination cycle to ensure that they provide timely, accurate and clinically-relevant reports. CMPT's critiques, newsletters and other educational materials enjoy consistently high ratings among participants and serve as a valuable source of continuing education.

CMPT is active internationally. Numerous organizations have adopted CMPT techniques for use in their own countries through CMPT's Education, Training, & Mentoring (ETM) Program. As well, CMPT has been successfully engaged in national and international research in laboratory quality management within the UBC Program Office for Laboratory Quality Management (POLQM), a sister program to CMPT.

NRL - COLLABORATION MEMBER + SCIENCE ARCHITECT

NRL Science of Quality

Established in 1985 and based in Melbourne, Australia, NRL is an independent and not-for-profit organization whose mission is to promote the quality of tests and testing for infectious diseases globally.

NRL is designated a World Health Organization Collaborating Centre for Diagnostics and Laboratory Support for HIV and AIDS and Other Blood-borne Infections and a fully accredited proficiency testing provider under ISO 17043:2010. In addition, NRL is certified by NCS International for Quality Management AS/NZS ISO 9001:2008 and Safety Management AS/NZS 4801:2001.

NRL has been a Collaboration member since 2005 and serves as the Science Architect for Clinical Serology, Clinical Nucleic Acid Testing and Blood Screening EQA Programs. The design and analysis of these Programs draw upon NRL's extensive experience and scientific methods to ensure maximum scope for error detection. NRL EQA Programs, which incorporate genuine and diverse samples, are intended to assess the integrity of the entire testing process to identify sources of errors and prevent misdiagnosis.

As well, NRL is the founder and manager of an international quality network in which NRL directly provides Blood Screening EQA Programs and other quality services to national blood screening organizations and plasma fractionators from over 40 countries. These quality-focused participants have selected NRL Blood Screening EQA Programs as a cost-effective approach to managing risks.

In addition to EQA, NRL also offers a range of quality services for laboratories testing for infectious diseases, including:

- comprehensive and innovative quality assurance services,
- evaluations of tests and test algorithms,
- specialized laboratory testing services,
- training with sustainable outcomes, and
- consultation and advice on policy relating to laboratory testing.

OUR GREEN COMMITMENT

Minimizing environmental impact

Maximizing healthcare impact

As an environmentally responsible Collaboration, our Green Commitment includes moving from paper to digital formats and minimizing the mass and frequency of shipments to you.

As part of that commitment, we are:

- Minimizing separate shipments to you by simplifying our Test Event calendar.
- Sending you electronic copies of Instructions and Worksheets instead of printing and shipping paper copies to you.
- Providing digital images for microscopy Programs instead of printing and shipping microphotographs to you.
- Encouraging you to consider the environment before printing paperwork and to recycle or reuse all shipping materials.

We're making a difference.

Almost 100% of our shipping materials can now be recycled or reused. Moving from paper to digital will save approximately 1400 kilograms (3100 pounds) of paper every year and avert the associated environment cost of printing that paper and shipping it around the world by air transport.

We invite you to re-imagine our Programs to minimize their environmental impact. If you have suggestions for how we can further minimize our environmental footprint, please let us know at secretariat@oneworldaccuracy.org

PROGRAM ESSENTIALS

Here is how our Programs are organized

- Programs are divided into sections by testing discipline.
- Programs are listed alphabetically by Order Code in each section.
- All Programs are offered on a calendar-year basis.
- You may enrol in any Program anytime during the year. You will start with the next available Test Event and your Program cost will be pro-rated.
- Some Programs may only be offered once a minimum number of participants is reached.

We have simplified and standardized our Program design

- Programs may have either 3, 4, 6 or 12 test events.
- All Programs have a 21 day Test Event Window except Standardization Programs and Matrix Insensitive Chemistry EQA Programs. These Programs have a 7 day Test Event Window due to the nature of their sample material.
- The number of shipments per year is indicated under the format of each program.
- All Test Event Windows open on Wednesdays at 12:01 am (00.01) your local time.
- All Result Deadlines end on Wednesdays at 11:59 pm (23.59) your local time.

Our system provides automated notices to help you manage your Programs

- Advance Shipment Notice - so you can update your registration and prepare for the upcoming Test Event.
- Storage & Handling Instructions + Worksheets - so you can properly receive, store and test your samples and record submitted results.
- Results Deadline Reminders - so you can submit all results on time.

IMPORT PERMITS

Contact your local authorities to determine import permit requirements for these programs. Use the Oneworld Accuracy program codes, program names and sample content to ensure that import permits match shipment paperwork.

Sample sets for these programs are classified by IATA as UN3373 Biological Substance, Category B and may require import permits.

Sample sets for these programs are classified by IATA as UN2814 Infectious Substances Affecting Humans, and may require import permits.

Sample sets for these programs are shipped on dry ice. Dry ice is classified by IATA as UN1845 Dangerous Goods and may require import permits.

Sample sets for these programs are shipped annually.

Program Code	Program Name	Sample Content	Sample Sets	Your Location		
				International	USA	Canada
AFVP435	Affirm VP Test	Inoculated swab	UN 3373	P?		CL
AMBS431	Antimycobacterial Susceptibility	Culti-loop	UN 2814	P?		P
BACT435	Bacterial Identification	Culti-loop	UN 3373	P?		CL
CANA435	Candida Antigen	Liquid	UN 3373	P?		CL
CLDA432	Clostridium Difficile Antigen	Liquid	UN 3373	P?		CL
CLDA435	Clostridium Difficile Antigen	Liquid	UN 3373	P?		CL
CMVN435	CMV DNA Qualitative & Viral Load	Human plasma	UN 3373, UN 1845, ✈	P?	P?	CL
CTNG435	C. trachomatis I N. gonorrhoeae DNA Qualitative	Human plasma	UN 3373, UN 1845, ✈	P?	P?	CL
DERS435	Dermatophyte Screen	Culti-loop	UN 3373	P?		CL
GENA435	Genital Antigens	Liquid	UN 3373	P?		CL
GENC432	Genital Culture	Culti-loop	UN 3373	P?		CL

IMPORT PERMITS

GENC435	Genital Culture	Culti-loop	UN 3373		P?	CL
GEND435	Genital Antigens - Nucleic Acid	Liquid	UN 3373		P?	CL
HAPN435	HAV RNA & Parvovirus B19 DNA	Human plasma	UN 3373	UN 1845	P?	P? CL
HBVL435	HBV DNA Viral Load	Human plasma	UN 3373	UN 1845	P?	P? CL
HCVG435	HCV Genotyping	Human plasma	UN 3373	UN 1845	P?	P? CL
HCVL435	HVC RNA Viral Load	Human plasma	UN 3373	UN 1845	P?	P? CL
HCVN435	HCV RNA Qualitative	Human plasma	UN 3373	UN 1845	P?	P? CL
HEPM435	Hepatitis Serology	Human plasma	UN 3373		P?	P? CL
HEPM4310	Hepatitis Serology	Human plasma	UN 3373		P?	P? CL
HIVG425	HIV-1 Drug Resistance	Human plasma	UN 3373	UN 1845	P?	P? PHAC
HIVL435	HIV-1 RNA Viral Load	Human plasma	UN 3373	UN 1845	P?	P? PHAC
HSVC432	Herpes Simplex	Lyophilized serum	UN 3373		P?	P? CL
HSVN435	HSV-1/2 DNA Qualitative	Human plasma	UN 3373	UN 1845	P?	P? CL
MMBS4320	Multimarker Blood Screening Serology	Human plasma	UN 3373		P?	P? PHAC
MOLC435	Mold/Yeast Culture	Culti-loop	UN 3373		P?	CL
MRSA435	Methicillin Resistant S. aureus	Culti-loop	UN 3373		P?	CL
MSPC435	Mycobacterium Species Culture	Culti-loop	UN 2814		P?	P
MTUC435	Mycobacterium Tuberculosis Culture	Culti-loop	UN 2814		P?	P
NATA4315	Multimarker Blood Screening NAT	Human plasma	UN 3373	UN 1845	P?	P? PHAC

IMPORT PERMITS

NGOS432	Neisseria gonorrhoeae Culture	Culti-loop		P?		CL
NGOS435	Neisseria gonorrhoeae Culture	Culti-loop		P?		CL
STAS435	Streptococcus A Culture	Culti-loop		P?		CL
THRC433	Throat Culture	Culti-loop		P?		CL
THRC435	Throat Culture	Culti-loop		P?		CL
TORC435	CMV / Rubella / Toxoplasma Serology	Human plasma		P?	P?	CL
TREP4310	Syphilis Serology	Human plasma		P?	P?	CL
TREP435	Syphilis Serology	Human plasma		P?	P?	CL
URCC432	Urine Colony Count	Quanticult		P?		CL
URIC432	Urine Culture	Culti-loop		P?		CL
URIC435	Urine Culture	Culti-loop		P?		CL
VREN435	Vancomycin Resistant Enterococcus	Culti-loop		P?		CL
YEAC435	Yeast Culture	Culti-loop		P?		CL

P? Import permit may be required. Contact your local authorities.

P CFIA and PHAC Import Permits are required.

PHAC PHAC Import Permit is required.

CL Canadian Biosafety Standards and Guidelines (CBSG) CL2 Compliance Letter is required.

SUBSCRIPTION OPTIONS

We provide 5 Program subscription options to help you manage your testing quality.

Full **Full subscription.** You receive one set of samples and submit one set of results for evaluation for each test event in the calendar year. The exceptions are some Point of Care programs in which you may submit multiple sets of results for evaluation (e.g. up to 20) for a number of point of care devices.

+RO **Report-only subscription.** You may submit additional sets of results using the same samples provided with the Full subscription for free. Availability is subject to sample volume, stability, and suitability. This subscription option is useful for you to assess performance of back-up systems. Report-only subscriptions are not available for programs consisting of CMS regulated analytes.

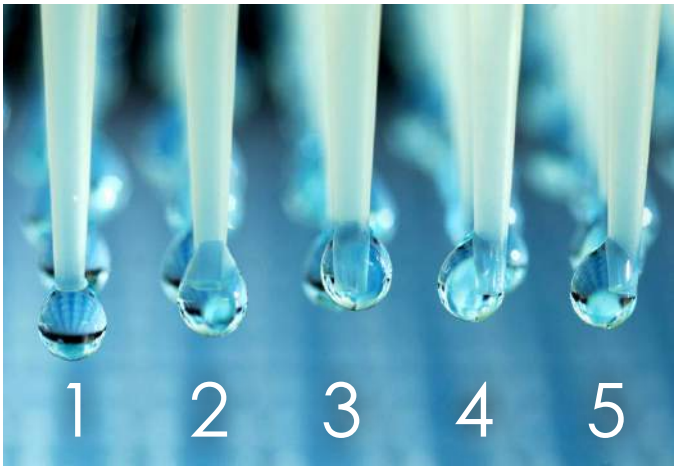
+SO **Sample-only subscription.** This is an add-on to Full subscriptions. You receive an additional set of samples but do not submit a second set of results for evaluation. This subscription option is useful for your troubleshooting and internal quality measures.

OC **Off-cycle subscription.** This is a stand-alone subscription. You receive one set of samples for a single test event and submit one set of results for evaluation. This subscription option is useful for you to follow-up unexpected or adverse performance and for regulatory compliance.

VA **Validation subscription.** This is a stand-alone subscription. You receive one set of survey-validated samples with an associated report of survey values, but do not submit results for evaluation. This subscription option is useful for you to troubleshoot, implement a new system or work up new reagents or calibrators.

Our Order Codes give you Program Details

+5 FREE REPORT ONLY SUBSCRIPTIONS



Full subscriptions of Oneworld Accuracy programs come with 5 free Report only subscriptions. In other words, you can submit up to 5 additional sets of results for evaluation - at no cost - using the same sample set provided with your Full subscription.

It gets better. If you need additional sample volume for your Report only subscriptions, simply order as many Sample only subscriptions as you require.

This is new for 2015. Providing 5 free Report only subscriptions is part of our commitment to provide you with an innovative, cost-effective way to extend EQA to all your testing, including secondary and backup test platforms.

Make sure that you take full advantage of your 5 free Report only subscriptions – simply list how many Report only subscriptions you want for each program on your Order form.

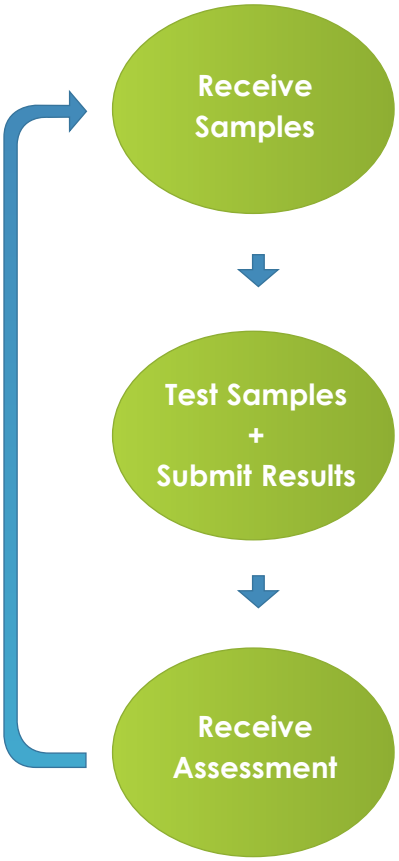
Fine Print. We indicate the available subscription options for every Oneworld Accuracy program. Certain Point of Care programs have 19 free Report only subscriptions. Some programs are not suitable (e.g. programs with runs and replicates) and some samples are not sufficiently stable (e.g. blood gases) for Report only subscriptions. As well, this subscription option is limited for CLIA participants testing CMS regulated analytes.

SYSTEM OVERVIEW

Getting started

Programs are listed by discipline (see Table of Programs). To order programs, please use the Order Form or Request for Quote provided by your Collaboration Member.

The Test Event Cycle



Advance Shipment Notice

These enable you to update your registration and prepare for the upcoming Test Event.

Storage & Handling Instructions + Worksheets

These enable you to properly receive, store and test your samples and record submitted results.

Results Deadline Reminders

These remind you to submit all results before the Results Deadline.

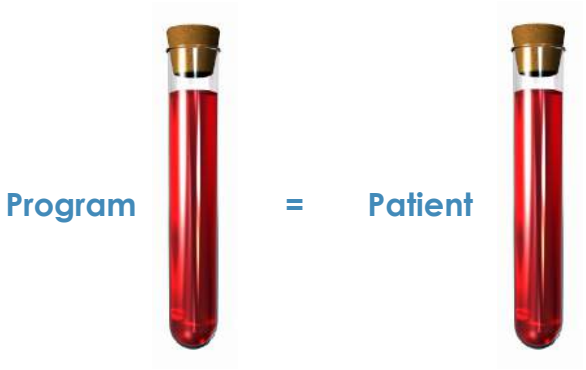
Performance Reports

These summarize your turn-around-time and performance.

Here's how we acknowledge your commitment to testing quality

For EQA programs, we provide an annual Certificate of Participation listing the disciplines of all programs you participated in. For Standardization Programs, we provide an annual Certificate of Performance for each program in which you met the performance goal.

THE FIRST PRINCIPLE



When you participate in our programs, the First Principle is that you must test program samples and report results exactly as you would patient samples.

Our programs are designed to assess how you test patient samples and report results. They are intended to be educational in nature so that if problems are identified, they represent an opportunity for you to improve the quality of your patient testing. We strive to help you so that all of your patients receive accurate, clinically relevant and timely results.

Your commitment to the First Principle ensures that our programs can be a reliable measure for how you test patient samples and report results. This means you must:

- test samples in the same manner and number of times as you test patient samples;
- test samples within the same timeframes as you test patient samples;
- test samples by the same personnel that routinely test patient samples;
- test samples using the same systems used to routinely test patient samples;
- submit results within the same timeframes as you report patient results; and
- not discuss your results with other participants or send your samples for outside testing.

WHY RESULTS DEADLINES MATTER

Submitting results before the 

signals your commitment to the First Principle.

For consistency, all Results Deadlines are on Wednesdays and end at 11:59 pm (23:59) your local time.

Submitting on time enables us to evaluate and communicate your performance as soon as possible.

To give you ample time, all programs have Test Event Windows that exceed routine testing times for patient samples.

The system reminds you of missing results and Results Deadlines. As well, the system helps you meet Results Deadlines:

- To encourage early submission, the system records when your results are submitted and calculates your Turn-Around-Time measured in days before the Results Deadline.
- To discourage late submission, the system does not accept your results if submitted after the Results Deadline.
- To fix clerical errors, the system accepts all changes to your submitted results anytime before the Results Deadline.

NEW + REVISED FOR 2015

All Standardization and EQA programs

1 5 FREE Report Only programs for every program in which a Report Only option is available

Monthly EQA

2	BCHE4121	Chemistry/Immunoassay	New Format
3	BGAS4121	Blood Gas/Electrolytes	New Format
4	CARM4121	Cardiac Markers	New Format
5	COAG4121	Coagulation	New Format
6	HEMA4121	Hematology	New Format
7	SPRO4121	Specific Proteins	New Format
8	TUMK4121	Tumor Markers	New Format
9	UDOA4121	Urine Drugs of Abuse	New Format
10	URIN4121	Urinalysis	New Format

Chemistry EQA

11	BCHE443	Chemistry/Immunoassay	New Format
12	CCHM443	Clinical Chemistry	New Format
13	ENDO443	Endocrinology	New Format
14	FOBT4123	Fecal Occult Blood	New Program
15	SPRO442	Specific Protein	New Format
16	TOXI443	Toxicology	New Format
17	TUMK443	Tumor Markers	New Format
18	UDOA443	Urine Drugs of Abuse	New Format
19	USED432	Urine Sediment	Report Only option now available

Hematology EQA

20	CELL435	Cell Morphology	Report Only option now available
21	HEFX465	Hematology 5 Part Differential	New Format outside of Canada
22	HEMA465	Basic Hematology	New Format outside of Canada
23	HETX465	Hematology 3 Part Differential	New Format outside of Canada

Coagulation EQA

24	COAG443	Coagulation	New Format
25	COAG465	Coagulation	New format outside of Canada
26	DDIM442	D-Dimer	New Format
27	THBP442	Thrombophilia	New Format

Transfusion Medicine EQA

28	IMHE442	Immunohematology	New Program

NEW + REVISED FOR 2015

Clinical Microscopy

29	FECS431	Fecal Smear	Report Only option now available
30	FERN431	Fern Test	Report Only option now available
31	KOHP431	KOH Preparation	Report Only option now available
32	NASM431	Nasal Smear	Report Only option now available
33	PINW431	Pinworm Preparation	Report Only option now available
34	VAGP431	Vaginal Preparation	Report Only option now available

Diagnostic Immunology EQA

35	ALLY443	Inhalant Allergy	New Format
36	FOOD443	Food Allergy	New Format

Clinical Nucleic Acid Testing EQA

37	HIVT425	HIV Tropism	New Program

MONTHLY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

The number of shipments of sample sets is indicated in the program description for each Program.

You will receive an Advance Shipment Notice (ASN), which reminds you of upcoming shipments and test events, before the Test Event Open. You will need to update and finalize your registration before the Test Event Open to be able to submit results. Late registration may cause you to miss that test event. This is especially important for new participants who may have instruments and reagents not listed in OASYS. These have to be researched and added to OASYS before you can submit results.

All Programs in this section have a 7 day Test Event Window with Results Deadlines indicated below.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, January 07	7 days	Wednesday, January 14
2	Wednesday, February 04	7 days	Wednesday, February 11
3	Wednesday, March 04	7 days	Wednesday, March 11
4	Wednesday, April 08	7 days	Wednesday, April 15
5	Wednesday, May 06	7 days	Wednesday, May 13
6	Wednesday, June 03	7 days	Wednesday, June 10
7	Wednesday, July 08	7 days	Wednesday, July 15
8	Wednesday, August 05	7 days	Wednesday, August 12
9	Wednesday, September 09	7 days	Wednesday, September 16
10	Wednesday, October 07	7 days	Wednesday, October 14
11	Wednesday, November 04	7 days	Wednesday, November 11
12	Wednesday, December 02	7 days	Wednesday, December 09

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MONTHLY EQA

2014 Pilot Calendar

We have created a two test event Pilot in 2014 for the following Monthly EQA programs:

- BCHE4121 Chemistry / Immunoassay
- BGAS4121 Blood Gas / Electrolytes
- CARM4121 Cardiac Markers
- COAG4121 Coagulation
- SPRO4121 Specific Proteins
- UDOA4121 Urine Drugs of Abuse

There will be 1 shipment of sample sets for both Pilot test events.

The Pilot is free. If you wish to participate, please enroll with your Oneworld Accuracy provider not later than Wednesday, September 10, 2014. Quantities are limited and pilot subscriptions may have to be allocated in the event of oversubscription.

You will receive an Advance Shipment Notice (ASN), which reminds you of upcoming shipments and test events, before the Test Event Open. You will need to update and finalize your registration before the Test Event Open to be able to submit results. Late registration may cause you to miss that test event. This is especially important for new participants who may have instruments and reagents not listed in OASYS. These have to be researched and added to OASYS before you can submit results.

All Pilot Programs have a 7 day Test Event Window with a Results Deadline indicated below.

Test Event	Test Event Open	Test Event Window	Results Deadline
Pilot 1	Wednesday, October 1, 2014	7 days	Wednesday, October 8, 2014
Pilot 2	Wednesday, October 29, 2014	7 days	Wednesday, November 5, 2014

Subscription Options

The following Subscription options are available for Programs in this section.

Full

Report-only

Sample-only

Off-cycle

Validation

MONTHLY EQA

1. CHEMISTRY/IMMUNOASSAY

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
BCHE4121	**12** test events x **1** sample x **5** mL **4** shipments	Not compatible with Abbott Vision analyzers using whole blood for HDL cholesterol.

Chemistry
Acid phosphatase, non-prostatic
Acid phosphatase, prostatic
Acid phosphatase, total
Alanine aminotransferase (ALT/SGPT)
Albumin
Aldolase
Alkaline phosphatase (ALP)
Amylase, total
Amylase, pancreatic
Aspartate aminotransferase (AST/SGOT)
Beta-2 Microglobulin
Bile acids
Bilirubin, direct
Bilirubin, total
Calcium – ionized
Calcium, total
Chloride
Cholinesterase
CO2, total
Copper
Creatine kinase (CK), total
Creatinine
Ferritin
Gamma-glutamyltransferase (GGT)
Glucose
Glutamate dehydrogenase
Homocysteine
Hydroxybutyrate dehydrogenase
Iron
Iron, total binding capacity (TIBC)
Lactate
Lactate dehydrogenase (LDH)
Lipase
Magnesium
Osmolality
Phosphate, inorganic
Phenylalanine
Potassium
Protein, total
Sodium
Urea/Urea nitrogen
Uric acid
Vitamin D – 25-Hydroxy
Zinc

Lipids
Cholesterol, HDL
Cholesterol, LDL
Cholesterol, total
Triglycerides

Immunoassay
17-Hydroxyprogesterone
Aldosterone
Alpha-fetoprotein (AFP)
Androstenedione
Carcinoembryonic antigen (CEA)
Cortisol
DHEA Sulphate
Estradiol
Estriol, unconjugated
Folate
Follicle stimulating hormone (FSH)
Fructosamine
Growth Hormone
Human chorionic gonadotropin (hCG)
Immunoglobulin E
Insulin
Luteinizing hormone (LH)
Progesterone
Prolactin
Prostate-specific antigen, total (PSA)
Sex Hormone Binding Globulin
Testosterone
Thyroglobulin
Thyroid stimulating hormone (TSH)
Thyroxine, free (FT4)
Thyroxine, total (T4)
Transferrin
Triiodothyronine, free (FT3)
Triiodothyronine, total (T3)
T-uptake
Vitamin B12

Therapeutic Drugs
Amikacin
Carbamazepine
Digoxin
Ethosuximide
Gentamicin
Lidocaine
Lithium
N-acetylprocainamide (NAPA)
Phenobarbital
Phenytoin
Primidone
Procainamide
Quinidine
Salicylate
Theophylline
Tobramycin
Valproic Acid
Vancomycin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MONTHLY EQA

2. BLOOD GAS/ELECTROLYTES

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
BGAS4121	**12** test events x **1** sample x **2.5** mL **4** shipments	No known compatibility issues with any method or analyzer.

Calcium, ionized	Lithium	Potassium
Chloride	Magnesium, ionized	Sodium
Creatinine	pCO2	Urea
Glucose	pH	
Lactate	pO2	

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

3. CARDIAC MARKERS

Quantitative | **Liquid plasma/serum matrix**

ORDER CODE	FORMAT	COMPATIBILITY
CARM4121	**12** test events x **1** sample x **1.5** mL **4** shipments	Compatible with plasma and serum based methods/analyzers.

CK-MB (activity)	D-dimer	NT-proBNP
CK-MB (mass)	hsCRP	Troponin I
Creatine kinase (CK)	Myoglobin	Troponin T

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MONTHLY EQA

4. COAGULATION

Quantitative | **Lyophilized plasma**

ORDER CODE	FORMAT	COMPATIBILITY
COAG4121	**12** test events x **1** sample x **1** mL **4** shipments	Not compatible with Roche CoaguChek, Ciba Corning Biotrack, Dupont Coumatrak, ITC Hemochron Jr./Signature series, i-STAT PCA, i-STAT I, ITC Protime and whole blood methods.

Activated partial thromboplasmin time (APTT)
Antithrombin III
Fibrinogen
International Normalized Ratio (INR)
Prothrombin time (PT)
Thrombin Time

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

5. HEMATOLOGY

Quantitative | **Whole Blood**

ORDER CODE	FORMAT	COMPATIBILITY
HEMA4121	**12** test events x **1** sample x **2** mL **4** shipments	Compatible with all manual, semi-automated and automated CBC methods. Not compatible with BD QBC analyzers.

Hematocrit (by analyzer or spun)
Hemoglobin
Mean Corpuscular Hemoglobin (MCH)
Mean Corpuscular Hemoglobin Concentration (MCHC)
Mean Corpuscular Volume (MCV)
Platelet count
Red Blood Cell Count
Red Cell Distribution Width (RDW)
White Blood Cell Count

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

MONTHLY EQA

6. SPECIFIC PROTEINS

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
SPRO4121	**12** test events x **1** sample x **2** mL **4** shipments	No known compatibility issues with any method or analyzer.

- Albumin
- Alpha-1-acid glycoprotein
- Alpha-1-antitrypsin
- Alpha-2-macroglobulin
- Alpha-fetoprotein
- Antistreptolysin O
- Antithrombin III
- Beta-2-microglobulin
- Ceruloplasmin
- Complement C3
- Complement C4
- C-Reactive protein
- Ferritin
- Haptoglobin
- Immunoglobulin A (IgA)
- Immunoglobulin E (IgE)
- Immunoglobulin G (IgG)
- Immunoglobulin M (IgM)
- Kappa light chain
- Lambda light chain
- Prealbumin
- Rheumatoid Factor
- Retinol binding protein
- Transferrin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

7. TUMOR MARKERS

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
TUMK4121	**12** test events x **1** sample x **2** mL **4** shipments	No known compatibility issues with any method or analyzer.

- Alpha-fetoprotein (AFP)
- Beta-2-microglobulin
- Cancer antigen 125 (CA-125)
- Cancer antigen 15-3 (CA15-3)
- Cancer antigen 19-9 (CA19-9)
- Cancer antigen 27.29 (CA27.29)
- Carcinoembryonic antigen (CEA)
- Ferritin
- hCG
- Prostate-specific antigen (PSA), complex
- PSA, free
- PSA, free/total ratio
- PSA, total
- Thyroglobulin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MONTHLY EQA

8. URINE DRUGS OF ABUSE

Qualitative and/or Quantitative | **Human urine**

ORDER CODE	FORMAT	COMPATIBILITY
UDOA4121	**12** test events x **1** sample x **10** mL **4** shipments	No known compatibility issues with any method or analyzer.

- Alprazolam
- Amphetamine
- Amphetamines/Methamphetamines
- Barbiturates
- Benzoylecogonine
- Benzodiazepines
- Buprenorphine
- Cannabinoids
- Cocaine Derivatives
- Codeine
- Cotinine
- Delta-9-THC-COOH
- Diazepam
- EDDP
- Ethanol
- Flunitrazepam
- Lorazepam
- Lysergic acid diethylamide (LSD)
- MDA
- MDMA
- Methadone
- Methamphetamine
- Methanol
- Methaqualone
- Morphine - Total
- Morphine - Free
- Morphine-3-glucuronide
- Nortriptyline
- Opiates
- Oxycodone
- Phencyclidine
- Phenobarbital
- Propoxyphene
- Tricyclic Antidepressants

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

9. URINALYSIS

Qualitative | **Urine**

ORDER CODE	FORMAT	COMPATIBILITY
URIN4121	**12** test events x **1** sample x **12** mL **4** shipments	No known compatibility issues with any method or analyzer.

- Bilirubin
- Bilirubin - Confirmatory
- Crystal Identification
- Glucose
- Human chorionic gonadotropin (hCG)
- Hemoglobin/Blood
- Ketones
- Leukocyte esterase
- Nitrite
- Osmolality
- pH
- Protein
- Reducing substances
- Specific gravity
- Urobilinogen

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

STANDARDIZATION PROGRAMS

Global Epidemic of Chronic Disease

Chronic diseases, rather than infectious diseases, now account for the majority of global morbidity and mortality. This change is not only evident within the developed world, but also, increasingly within developing countries. Of these diseases, cardiovascular diseases (CVDs) are the most important. In 2004, an estimated 17.1 million people died from CVDs worldwide, accounting for 29% of all deaths. This is projected to increase to 23.6 million by 2030.

This reality represents an unprecedented public health epidemic worldwide. Not only is the world's population getting older, but it is also becoming more obese and hypertensive as more and more people adopt sedentary lifestyles and adverse diets – a clustering of facts that is contributing significantly to the increasing incidence of diabetes and chronic kidney disease (CKD) around the world.

In response, governments are searching for measures that will reduce the costs associated with the medical management of chronic disease while at the same time looking for ways to identify those at risk so that interventions may be initiated at an earlier stage in the disease process, thereby affording opportunities for prevention. Increasingly, standard requisitions and disease-specific testing algorithms are being introduced as part of broader initiatives aimed at optimizing medical treatments by aligning them with the laboratory tests that are promulgated in evidence-based treatment guidelines. This has served to highlight the impact that laboratory error and inaccurate test results can have when evidence-based medical guidelines are used on a population wide basis.

A recent study examining the accuracy of creatinine testing in 107 laboratories serves as a case on point (Komenda, P, Beaulieu, M, Seccombe D and Levin A. Regional Implementation of Creatinine Measurement Standardization. J Am Soc Nephrol (2008); 19:164-169). This study demonstrated that creatinine testing in this network of laboratories was operating with a positive bias relative to the credentialed reference method target value for creatinine and if this bias had not been corrected, reporting of this new index of kidney function (eGFR - an estimate of kidney function calculated from the creatinine value) would have added 10% of the adult population (500,000 people) to an at-risk strata for CKD where in fact they should not have been (false positives).

It is well recognized that CKD and diabetes have a complex inter-relationship with the etiological factors that underlie the atherosclerotic process of cardiovascular diseases. Yet a small number of routine laboratory tests figure prominently in defining the nature of this inter-relationship. They include creatinine, eGFR, hemoglobin A1c, total cholesterol, HDL cholesterol, LDL cholesterol and triglycerides. These tests are used to identify, diagnose, treat and manage patients that have, or are at risk for, CKD, diabetes and CVD. Identifying patients in early disease stages or with high risk factors provides an opportunity for early, effective, low-cost intervention that can halt or slow the progression of disease.

STANDARDIZATION PROGRAMS

The Consequence of Non-Standardized Testing

Unfortunately, most laboratories worldwide have not standardized their measurement of creatinine, eGFR, hemoglobin A1c, total cholesterol, HDL cholesterol, LDL cholesterol and triglycerides to internationally accepted bases of accuracy. There is significant variation and error among laboratories in their test results and in the normal (reference) intervals and clinical comments they provide to doctors. Consequently, the value of these non-standardized test results for early diagnosis and treatment of these chronic diseases is severely compromised.

Since early signs of kidney disease are subtle, individuals with CKD can appear healthy. Accordingly, the vast majority of individuals worldwide with early stages of CKD go undiagnosed. Given this, the ability of doctors to diagnose early stage CKD relies almost exclusively on receiving standardized, accurate creatinine test results together with correct eGFR values. However, most laboratories worldwide have not standardized their creatinine measurements and very few report eGFR values, let alone eGFR values calculated from standardized creatinine measurements.

Until doctors receive standardized creatinine test results with correct eGFR values, their ability to diagnose early stage CKD will be compromised. This means that individuals can progress undetected from early stages of CKD to kidney failure, from which there are only two outcomes: renal replacement therapy (RRT) or premature death. RRT consists of a lifetime of dialysis or a kidney transplant. For those in the developing world, premature death is by far the most probable outcome. More than 80% of individuals receiving RRT live in the developed world as RRT is largely unavailable or unaffordable in developing countries. Moreover, the presence of CKD is also associated with a large increase in cardiovascular risk. Individuals with CKD have at least a tenfold risk of dying prematurely from CVDs regardless of whether they develop kidney failure.

The case for standardizing creatinine test results with correct eGFR values is compelling. Early detection and treatment of CKD not only slows or halts the progression of patients to end-state kidney disease, but can also significantly reduces the increased incidence of CVDs, the most common cause of premature deaths worldwide. Standardizing hemoglobin A1c can not only lead to early detection of diabetes, a main cause of both CKD and CVD but also can serve as an important yardstick in helping the diabetic and their doctor manage their disease. Standardizing lipid analytes is also important given their critical role in CVD risk assessment and management for diabetic and CKD patients, for whom dyslipidemia is prevalent.

STANDARDIZATION PROGRAMS

Turnkey Solution to Standardize Testing

The Standardization Programs are unique, turnkey and proven. They enable participants to standardize their measurements of creatinine (and to report correct eGFR values), hemoglobin A1c and the panel of lipid analytes with documented traceability to internationally accepted bases of accuracy. As well, these Programs enable participants to standardize the accompanying normal (reference) intervals and clinical comments they provide to doctors.

These Programs support both individual participants and entire networks of participants. Networks can include corporate networks, as well as regional, provincial and national networks. These Programs have been successfully implemented within a number a Canadian provinces and a number of national standardization initiatives are currently in progress. These initiatives draw upon the experience of the Collaboration Secretariat to ensure proper governance, sustainable funding and stakeholder support from laboratory, clinician and patient groups. For more information and assistance in starting a national standardization initiative in your country, please contact secretariat@oneworldaccuracy.org.

CEQAL is the Science Architect for all Standardization Programs. All analytes have target values assigned using internationally accepted Reference Methods described in the CEQAL Reference Method section. As well, all Programs feature sample sets of human origin that have the following characteristics:

- Fresh human serum or whole blood. These are fresh from-the-vein samples that are free of stabilizers, preservatives and other augmentations. The samples are obtained with full donor consent under CEQAL's oversight from patients having the desired clinical profile required for each Program.
- Human serum. These samples are free of added stabilizers and preservatives. The base material, which is obtained under CEQAL's oversight, undergoes a proprietary process of augmentation which uses only purified materials and proteins of human origin. These samples are free of stabilizers, preservatives and other materials of non-human origin effectively eliminating or reducing the likelihood of having an adverse impact on sample matrix.

Given that these samples mimic patient samples, they must be tested in the same manner and timeframe as patient samples. Accordingly, all Standardization Programs have a 7 day Test Event Window. Due to the nature of these samples, extensions to Results Deadlines cannot be granted under any circumstances.

STANDARDIZATION PROGRAMS

2015 Test Event Calendar

The following Test Event Calendar applies for applies for GFRB716, LIPB713 and LIPD763. Programs GFRB716 and LIPB713 involve a single test event, which may be scheduled from the following test event options. GFRC715 is scheduled for one week after completion of GFRB716.

Test Event Options	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 04	7 days	Wednesday, March 11
2	Wednesday, May 06	7 days	Wednesday, May 13
3	Wednesday, June 10	7 days	Wednesday, June 17
4	Wednesday, August 26	7 days	Wednesday, September 02
5	Wednesday, September 30	7 days	Wednesday, October 07
6	Wednesday, November 18	7 days	Wednesday, November 25

The following Test Event Calendar applies for GFRM733, GFRR733, GHBB713, GHGB733, LIPD733, LIVM733 and TPRM733. CHOL726 has only two test events following the same opening and deadline dates as listed for Test Events 1 and 3. GHBB713 involves a single test event, which may be scheduled from the following test event options.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 04	7 days	Wednesday, March 11
2	Wednesday, June 10	7 days	Wednesday, June 17
3	Wednesday, September 30	7 days	Wednesday, October 07

STANDARDIZATION PROGRAMS

The following Test Event Calendar applies for GFRM7123.

Test Event Options	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, January 21	7 days	Wednesday, January 28
2	Wednesday, February 18	7 days	Wednesday, February 25
3	Wednesday, March 18	7 days	Wednesday, March 25
4	Wednesday, April 22	7 days	Wednesday, April 29
5	Wednesday, May 13	7 days	Wednesday, May 20
6	Wednesday, June 17	7 days	Wednesday, June 24
7	Wednesday, July 15	7 days	Wednesday, July 22
8	Wednesday, August 19	7 days	Wednesday, August 26
9	Wednesday, September 23	7 days	Wednesday, September 30
10	Wednesday, October 21	7 days	Wednesday, October 28
11	Wednesday, November 18	7 days	Wednesday, November 25
12	Wednesday, December 02	7 days	Wednesday, December 09

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

STANDARDIZATION PROGRAMS

1. CERTIFICATION - TOTAL CHOLESTEROL

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Fresh human serum** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
CHOL726	**2** test events x **6** samples x **1.5** mL **2** shipments	No known compatibility issues with any method or analyzer.

This Program enables participants to document their ability to measure total cholesterol in accordance with the performance goals established by the National Cholesterol Education Program (NCEP) with traceability to the accuracy base of the Centers for Disease Control and Prevention - Cholesterol Reference Method Laboratory Network (CDC – CRMLN).

Objectives

Certification - Total Cholesterol provides participants with an assessment of total error, calibration bias and CV in measuring total cholesterol. This Program provides two certification events, each valid for six months.

Performance Goals

To meet the NCEP performance goals for the measurement of total cholesterol, a participant must operate with an absolute bias ≤ 3% and a CV ≤ 3%.

Challenge Format

Participants are provided two shipments of fresh human serum samples designed to challenge across the range of clinical interest. Samples have target values assigned by the credentialed Reference Method for total cholesterol traceable to the CDC-CRMLN accuracy base. The sample set consists of individual 1.5 mL vials of Samples A - F tested as patient specimens. Samples are tested in duplicate over 3 days:

- **Day 1** - A A | B B | C C | D D | E E | F F
- **Day 2** - A A | B B | C C | D D | E E | F F
- **Day 3** - A A | B B | C C | D D | E E | F F

Analysis

Results are submitted online, forwarded to the CDC for analysis against the NCEP performance goals and summarized in an electronic Performance Report which:

- Details total cholesterol test results versus target values.
- Reports total error, calibration bias and CV in measuring total cholesterol.
- Correlates the laboratory method with the credentialed Reference Method.
- Graphs the bias of the laboratory method relative to target values.

Certificate

Participants who measure total cholesterol within the NCEP performance goals receive a Certificate of Traceability from the CDC-CRMLN recognizing their successful completion of Certification - Total Cholesterol.

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

STANDARDIZATION PROGRAMS

2. eGFR BASELINE

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | Human serum | matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
GFRB716	**1** test event x **6** samples x **1** mL **1** shipment	No known compatibility issues with any method or analyzer.

Objectives

eGFR Baseline includes eGFR Calculation at no charge. eGFR Baseline provides participants with:

- a baseline assessment of total error, calibration bias and CV in measuring creatinine.
- a custom Bias Correction Formula to correct any calibration bias.
- validation of their custom Bias Correction Formula for reducing creatinine measurement error.

Performance Goals

Participants are assessed on the basis of three different total error performance goals. The optimal total error performance goal is ≤ 3.5%.

Challenge Format

Participants are provided a single shipment of human serum samples designed to challenge at the clinical decision levels for diagnosis of early-stage kidney disease. Samples have target values assigned by the ID | MS Reference Method. The sample set consists of individual 1 mL vials of Samples A - F tested as patient specimens. Samples A - C are tested in triplicate and Samples D - F are tested once over 3 days:

- **Day 1** - A A A | B B B | C C C | D
- **Day 2** - A A A | B B B | C C C | E
- **Day 3** - A A A | B B B | C C C | F

Analysis

Results are submitted online, analyzed against the three different total error performance goals for creatinine and summarized in an electronic Performance Report which:

- Details creatinine values versus target values.
- Reports total error, calibration bias and CV in measuring creatinine.
- Correlates the laboratory method with the ID | MS Reference Method.
- Graphs the bias of the laboratory method relative to target values.
- Provides a custom Bias Correction Formula that can be used to correct calibration bias.
- Validates the use of this custom Bias Correction Formula in reducing measurement error for creatinine.

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | QC | VA

STANDARDIZATION PROGRAMS

3. eGFR CALCULATION

Quantitative | Cases

ORDER CODE	FORMAT	COMPATIBILITY
GFRC715	**1** test event x **5** case histories **1** shipment	No known compatibility issues with any method or analyzer.

Objectives

eGFR Calculation is included with eGFR Baseline at no charge. eGFR Calculation provides participants with an assessment of their ability to calculate corrected creatinine values using the custom Bias Correction Formula (provided with eGFR Baseline) and to report correct eGFR values using either the CKD-EPI or MDRD equation.

Challenge Format

Participants are provided five case histories, each consisting of patient information and a creatinine result. For each case history, participants are required to calculate a corrected creatinine result using the custom Bias Correction Formula, if required, and report an eGFR value using either the CKD-EPI or MDRD equation.

Analysis

Results are submitted online, analyzed against the CKD-EPI or MDRD equation. and summarized in an electronic Performance Report. This Report provides for each case history:

- The corrected creatinine value using the custom Bias Correction Formula if required.
- The correct eGFR value using either the CKD-EPI or MDRD equation.

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | QC | VA

STANDARDIZATION PROGRAMS

4. eGFR MONITORING

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human serum** matrix-insensitive

ORDER CODES	FORMAT	COMPATIBILITY
GFRM7123	**12** test events x **3** samples x **1** mL **1** shipment	No known compatibility issues with any method or analyzer.
GFRM733	**3** test events x **3** samples x **1** mL **3** shipments	
GFRR733		

Both the CKD-EPI and MDRD equations include a factor for patients of African American descent. GFRM7123 and GFRR733 are suitable for participants serving a patient population including those of African American descent. GFRM733 is best suited for participants serving a patient population which does not include those of African American descent.

Objectives

eGFR Monitoring provides participants with an on-going assessment of total error in measuring creatinine and accuracy in reporting eGFR using either the CKD-EPI or MDRD equation.

Performance Goals

Participants are assessed on the basis of three different total error performance goals. The optimal total error performance goal is ≤ 3.5%.

Challenge Format

Participants are provided with human serum samples designed to challenge at the clinical decision levels for diagnosis of early-stage kidney disease. Samples have target values assigned by the ID | MS Reference Method. The sample set consists of Samples A - C, each with a case history. Samples are tested as patient specimens. Participants are required to:

- Provide uncorrected creatinine values.
- If they apply any correction formula, then provide the formula and corrected creatinine values.
- Report eGFR using either the CKD-EPI or MDRD equation.

Analysis

Results are submitted online, analyzed against the three different total error performance goals for creatinine and summarized in an electronic Performance Report which:

- Details creatinine values versus target values.
- Validates the use of any applied correction formula in reducing measurement error for creatinine.
- Provides correct eGFR values using either the CKD-EPI or MDRD equation.
- Provides corrected creatinine values if a custom Bias Correction Formula is applied.

Certificate

Participants who consistently measure creatinine within the optimal total error performance goal of ≤ 3.5% and who calculate correct eGFR values for all case histories provided receive a Certificate of Performance recognizing their successful completion of eGFR Monitoring.

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

STANDARDIZATION PROGRAMS

GFRC715 | GFRM7123 | GFRM733 | GFRR733

MDRD (Modification of Diet in Renal Disease) equation:

For Creatinine reported in mg/dL:

eGFR (mL/min/1.73 m^2) = 175 x $(P_{creatinine})^{-1.154}$ x $(Age)^{-0.203}$ x (0.742 if Female) x (1.210 if African American)

For Creatinine reported in µmol/L:

eGFR (mL/min/1.73 m^2) = 30848.92 x $(P_{creatinine})^{-1.154}$ x $(Age)^{-0.203}$ x (0.742 if Female) x (1.210 if African American)

CKD-EPI (Chronic Kidney Disease Epidemiology Collaboration) equation:

For Creatinine values ≤ 0.7 mg/dL in females:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/0.7)^{-0.329}$ x $(0.993)^{Age}$ x 1.018 x (1.159 if African American)

For Creatinine values > 0.7 mg/dL in females:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/0.7)^{-1.209}$ x $(0.993)^{Age}$ x 1.018 x (1.159 if African American)

For Creatinine values ≤ 0.9 mg/dL in males:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/0.9)^{-0.411}$ x $(0.993)^{Age}$ x (1.159 if African American)

For Creatinine values > 0.9 mg/dL in males:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/0.9)^{-1.209}$ x $(0.993)^{Age}$ x (1.159 if African American)

For Creatinine values ≤ 62 µmol/L in females:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/62)^{-0.329}$ x $(0.993)^{Age}$ x 1.018 x (1.159 if African American)

For Creatinine values > 62 µmol/L in females:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/62)^{-1.209}$ x $(0.993)^{Age}$ x 1.018 x (1.159 if African American)

For Creatinine values ≤ 80 µmol/L in males:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/80)^{-0.411}$ x $(0.993)^{Age}$ x (1.159 if African American)

For Creatinine values > 80 µmol/L in males:

eGFR (mL/min/1.73 m^2) = 141 x $(P_{creatinine}/80)^{-1.209}$ x $(0.993)^{Age}$ x (1.159 if African American)

STANDARDIZATION PROGRAMS

5. HEMOGLOBIN A1C BASELINE

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Fresh human whole blood** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
GHBB713	**1** test event x **3** samples x **0.5** mL **1** shipment	No known compatibility issues with any method or analyzer.

Since diabetes is prevalent in patients with kidney disease, augment your eGFR strategy with Hemoglobin A1c Baseline (GHBB713) and Hemoglobin A1c Monitoring (GHGB733). Prevailing clinical guidelines for the diagnosis and management of diabetes have been established by the American Diabetes Association. Proper and uniform application of these guidelines require that laboratories measure hemoglobin A1c with methods that are precise and traceable to the IFCC/DCCT accuracy base.

Objectives

The Hemoglobin A1c Baseline program provides participants with an assessment of total error.

Performance Goals

Participants are assessed on the basis of three different total error performance goals. The optimal total error performance goal is ≤ 4.3%.

Challenge Format

Participants are provided with one shipment of fresh human whole blood samples designed to challenge across the range of clinical interest. Samples have target values assigned by the IFCC/DCCT Reference Method. The sample set consists of individual 0.5mL vials of Samples A-C tested as patient specimens. Samples are tested in duplicate over 3 days:

- **Day 1** - A A | B B | C C
- **Day 2** - A A | B B | C C
- **Day 3** - A A | B B | C C

Analysis

Results are submitted online, analyzed against the three different total error performance goals for hemoglobin A1c and summarized in an electronic Performance Report which:

- Details hemoglobin A1c test results versus target values.
- Reports total error in measuring hemoglobin A1c.
- Graphs the bias of the laboratory method relative to target values.

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

STANDARDIZATION PROGRAMS

6. HEMOGLOBIN A1c MONITORING

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Fresh human whole blood** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
GHGB733	**3** test events x **3** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Hemoglobin A_{1C} | Glycated Hemoglobin - Total | Glycated Hemoglobin A1

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

STANDARDIZATION PROGRAMS

7. LIPIDS BASELINE

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | Human serum | matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
LIPB713	**1** test event x **3** samples x **2 mL** **1** shipment	No known compatibility issues with any method or analyzer.

The Adult Treatment Panel III (ATP III) Guidelines of the National Cholesterol Education Program (NCEP) utilize lipoprotein test results for classifying patients at risk of coronary heart disease (CHD). The NCEP Working Group on Lipoprotein Measurements has defined clinically relevant performance goals for the measurement of lipoproteins. This Program enables participants to assess their ability to measure lipoproteins in accordance with these performance goals.

Objectives

Lipids Monitoring provides participants with an on-going assessment of total error in measuring lipids.

Performance Goals

Participants are assessed on the basis of three different total error performance goals for each analyte.

The Total Cholesterol optimal total error performance goal is ≤ 4.5%.
The HDL Cholesterol optimal total error performance goal is ≤ 5.5%.
The LDL Cholesterol optimal total error performance goal is ≤ 6.8%.
The Triglycerides optimal total error performance goal is ≤ 14.0%.

Challenge Format

Participants are provided with one shipment of human serum samples designed to challenge across the range of clinical interest. Samples have target values assigned by credentialed Reference Methods traceable to the CDC-CRMLN accuracy base. The sample set consists of individual 2 mL vials of Samples A - C tested as patient specimens. Samples are tested in duplicate over 3 days:

- **Day 1** - A A | B B | C C
- **Day 2** - A A | B B | C C
- **Day 3** - A A | B B | C C

Analysis

Results are submitted online, analyzed against the NCEP total error performance goals and summarized in an electronic Performance Report which:

- Details lipid test results versus target values.
- Reports total error in measuring lipids.
- Graphs the bias of the laboratory methods relative to target values.

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | QC | VA

STANDARDIZATION PROGRAMS

8. LIPIDS MONITORING

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Fresh human serum** | matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
LIPD763	**6** test events x **3** samples x **2** mL **6** shipments	No known compatibility issues with any method or analyzer.
LIPD733	**3** test events x **3** samples x **2** mL **3** shipments	

Apolipoprotein A-1
Apolipoprotein B
Cholesterol, total
HDL cholesterol
Homocysteine
LDL cholesterol
Lipoprotein (a) (Lp(a))
Triglycerides (Net)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

9. LIVER FUNCTION MONITORING

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human serum** | matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
LIVM733	**3** test events x **3** samples x **0.7** mL **3** shipments	No known compatibility issues with any method or analyzer.

Alanine aminotransferase (ALT/SGPT)
Alkaline phosphatase (ALP)
Aspartate aminotransferase (AST/SGOT)
Bilirubin, total
Gamma-glutamyltransferase (GGT)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

10. TOTAL PROTEIN MONITORING

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human serum** | matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
TPRM733	**3** test events x **3** samples x **0.7** mL 3 shipments	No known compatibility issues with any method or analyzer.

Protein, total

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MATRIX INSENSITIVE CHEMISTRY EQA

These Matrix Insensitive Chemistry EQA Programs feature sample sets of human origin that have the following characteristics:

- Fresh human serum, plasma or whole blood. These are fresh from-the-vein samples that are free of stabilizers, preservatives and other augmentations. The samples are obtained with full donor consent under the Science Architects` oversight from patients having the desired clinical profile required for each Program.

- Human serum, plasma or whole blood. These samples are free of added stabilizers and preservatives. The base material, which is obtained under the Science Architects` oversight, undergoes a proprietary process of augmentation which uses only purified materials and proteins of human origin.

Samples for these Programs are free of stabilizers, preservatives and other materials of non-human origin effectively eliminating or reducing the likelihood of having an adverse impact on sample matrix (matrix insensitive).

Given that these samples mimic patient samples, they must be tested in the same manner and timeframe as patient samples. Accordingly, all Programs within this section have a 7 day Test Event Window. Due to the nature of these samples, extensions to Results Deadlines cannot be granted under any circumstances.

Some analytes within Matrix Insensitive Chemistry Programs have target values assigned by CEQAL using Reference Methods described in the CEQAL Reference Method section. Those analytes are identified with this icon:

MATRIX INSENSITIVE CHEMISTRY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all 6 test event Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 04	7 days	Wednesday, March 11
2	Wednesday, May 06	7 days	Wednesday, May 13
3	Wednesday, June 10	7 days	Wednesday, June 17
4	Wednesday, August 26	7 days	Wednesday, September 02
5	Wednesday, September 30	7 days	Wednesday, October 07
6	Wednesday, November 18	7 days	Wednesday, November 25

The following Test Event Calendar applies for all 3 test event Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 04	7 days	Wednesday, March 11
2	Wednesday, June 10	7 days	Wednesday, June 17
3	Wednesday, September 30	7 days	Wednesday, October 07

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MATRIX INSENSITIVE CHEMISTRY EQA

1. B-TYPE NATRIURETIC PEPTIDE

CEQAL Science architect

Quantitative | **Human plasma** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
BNPS432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

B-type natriuretic peptide (BNP)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. CARDIAC MARKERS-SERUM

CEQAL Science architect

Quantitative | **Human serum** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
CAMS463	**6** test events x **3** samples x **1** mL **6** shipments	**Not compatible** with Biosite Triage Meter, Roche Cardiac Reader, Spectral Cardiac STATUS, Response Biomedical RAMP Reader and Roche Cobas h232.
CAMS433	**3** test events x **3** samples x **1** mL **3** shipments	

CK-MB (activity)
CK-MB (mass)
Creatine kinase (CK)
Lactate dehydrogenase
Myoglobin
Troponin I
Troponin T

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MATRIX INSENSITIVE CHEMISTRY EQA

3. ROUTINE CHEMISTRY

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human serum** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
CHEM463	**6** test events x **3** samples x **2** mL **6** shipments	No known compatibility issues with any method or analyzer.
CHEM433	**3** test events x **3** samples x **2** mL **3** shipments	

Alanine aminotransferase (ALT/SGPT)
Albumin
Alkaline phosphatase (ALP)
Amylase
Amylase, pancreatic
Aspartate aminotransferase (AST/SGOT)
Beta-hydroxybutyric acid
Bilirubin, direct
Bilirubin, total
Calcium
Chloride
CO2 , total
Creatine kinase (CK)
Creatinine
Ferritin
Gamma-glutamyltransferase (GGT)
Glucose
Human chorionic gonadotropin (hCG)
Iron
Iron, total binding capacity (TIBC)
Iron, unsaturated binding capacity
Lactate
Lactate dehydrogenase (LD)
Lipase
Lithium
Magnesium
Osmolality
Phosphorus
Potassium
Protein, total
Sodium
Transferrin
Urea/Urea nitrogen
Uric acid

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

4. NT-PRO B-NATRIURETIC PEPTIDE

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human plasma** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
NBNP432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

NT-Pro B-natriuretic peptide (NT-Pro-BNP)

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

MATRIX INSENSITIVE CHEMISTRY EQA

5. NEONATAL BILIRUBIN

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human serum** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
NEOB435	**3** test events x **5** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Bilirubin, direct

Bilirubin, total

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

6. THERAPEUTIC DRUG MONITORING

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Fresh serum** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
THDM463	**6** test events x **3** samples x **2** mL **6** shipments	No known compatibility issues with any method or analyzer.
THDM433	**3** test events x **3** samples x **2** mL **3** shipments	

Acetaminophen
Amikacin
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Methotrexate
Phenobarbital
Phenytoin
Primidone
Salicylates
Theophylline
Tobramycin
Valproic acid
Vancomycin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MATRIX INSENSITIVE CHEMISTRY EQA

7. UREA/CREATININE

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Quantitative | **Human serum** matrix-insensitive

ORDER CODE	FORMAT	COMPATIBILITY
URCR435	**3** test events x **5** samples x **1** mL **3** shipments	Compatible with i-STAT, Nova Stat Profile and other analyzers.
URCR432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

Creatinine

Urea/Urea nitrogen

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all programs in this section except for BCHE443, CCHM443, ENDO443, SPRO442, TOXI443, TUMK443 and UDOA443.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

The following Test Event Calendar applies for BCHE443, CCHM443, ENDO443, SPRO442, TOXI443, TUMK443, UDOA443.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11
4	Wednesday, November 25	21 days	Wednesday, December 16

CHEMISTRY EQA

The following Test Event Calendar applies for FOBT4123.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, January 21	7 days	Wednesday, January 28
2	Wednesday, February 18	7 days	Wednesday, February 25
3	Wednesday, March 18	7 days	Wednesday, March 25
4	Wednesday, April 22	7 days	Wednesday, April 29
5	Wednesday, May 13	7 days	Wednesday, May 20
6	Wednesday, June 17	7 days	Wednesday, June 24
7	Wednesday, July 15	7 days	Wednesday, July 22
8	Wednesday, August 19	7 days	Wednesday, August 26
9	Wednesday, September 23	7 days	Wednesday, September 30
10	Wednesday, October 21	7 days	Wednesday, October 28
11	Wednesday, November 18	7 days	Wednesday, November 25
12	Wednesday, December 02	7 days	Wednesday, December 09

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MO — Monthly

NEW - Monthly formats for certain Programs in this section are available. See Monthly EQA section.

CHEMISTRY EQA

1. ALCOHOL

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
ALCH435	**3** test events x **5** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.

Acetone
Ethanol

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. AMMONIA

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
AMMN432	**3** test events x **2** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.

Ammonia

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

3. BASIC CARDIAC MARKERS

Quantitative and/or qualitative | **Plasma**

ORDER CODE	FORMAT	COMPATIBILITY
BCAM435	**3** test events x **5** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.
BCAM432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

CK-MB (activity)
CK-MB (mass)
Creatinine kinase
Lactate dehydrogenase (LD)
Myoglobin
Troponin I
Troponin T

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

4. CHEMISTRY/IMMUNOASSAY

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
BCHE435	**3** test events x **5** samples x **5** mL **3** shipments	**Not compatible** with Abbott Vision analyzers using whole blood for HDL cholesterol.
BCHE443	**4** test events x **3** samples x **5** mL **3** shipments	

Chemistry
Acid phosphatase, non-prostatic
Acid phosphatase, prostatic
Acid phosphatase, total
Alanine aminotransferase (ALT/SGPT)
Albumin
Aldolase
Alkaline phosphatase (ALP)
Amylase, total
Amylase, pancreatic
Aspartate aminotransferase (AST/SGOT)
Beta-2 Microglobulin
Bile acids
Bilirubin, direct
Bilirubin, total
Calcium – ionized
Calcium, total
Chloride
Cholinesterase
CO2, total
Copper
Creatine kinase (CK), total
Creatinine
Ferritin
Gamma-glutamyltransferase (GGT)
Glucose
Glutamate dehydrogenase
Homocysteine
Hydroxybutyrate dehydrogenase
Iron
Iron, total binding capacity (TIBC)
Lactate
Lactate dehydrogenase (LDH)
Lipase
Magnesium
Osmolality
Phosphate, inorganic
Phenylalanine
Potassium
Protein, total
Sodium
Transferrin
Urea/Urea nitrogen
Uric acid
Vitamin D – 25-Hydroxy
Zinc

Lipids
Cholesterol, HDL
Cholesterol, LDL
Cholesterol, total
Triglycerides

Immunoassay
17-Hydroxyprogesterone
Aldosterone
Alpha-fetoprotein (AFP)
Androstenedione
Carcinoembryonic antigen (CEA)
Cortisol
DHEA Sulphate
Estradiol
Estriol, unconjugated
Folate
Follicle stimulating hormone (FSH)
Fructosamine
Growth Hormone
Human chorionic gonadotropin (hCG)
Immunoglobulin E
Insulin
Luteinizing hormone (LH)
Progesterone
Prolactin
Prostate-specific antigen, total (PSA)
Sex Hormone Binding Globulin
Testosterone
Thyroglobulin
Thyroid stimulating hormone (TSH)
Thyroxine, free (FT4)
Thyroxine, total (T4)
Triiodothyronine, free (FT3)
Triiodothyronine, total (T3)
T-uptake
Vitamin B12

Therapeutic Drugs
Acetaminophen
Amikacin
Carbamazepine
Digoxin
Ethosuximide
Gentamicin
Lidocaine
Lithium
N-acetylprocainamide (NAPA)
Phenobarbital
Phenytoin
Primidone
Procainamide
Quinidine
Salicylate
Theophylline
Tobramycin
Valproic Acid
Vancomycin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

CHEMISTRY EQA

5. BLOOD GAS / ELECTROLYTES

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
BGAS435	**3** test events x **5** samples x **2.5** mL **3** shipments	No known compatibility issues with any method or analyzer.
BGAS432 **for waived testing methods only**	**3** test events x **2** samples x **2.5** mL **3** shipments	

Calcium, ionized	Lithium	Potassium
Chloride	Magnesium, ionized	Sodium
Creatinine	pCO2	Urea
Glucose	pH	
Lactate	pO2	

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

6. CARDIAC MARKERS

Quantitative | **Liquid plasma/serum matrix**

ORDER CODE	FORMAT	COMPATIBILITY
CARM435	**3** test event x **5** samples x **1.5** mL **3** shipments	Compatible with plasma and serum based methods/analyzers.
CARM432 **for waived testing methods only**	**3** test events x **2** sample x **1.5** mL **3** shipments	

CK-MB (activity)	D-dimer	NT-proBNP
CK-MB (mass)	hsCRP	Troponin I
Creatine Kinase	Myoglobin	Troponin T

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

CHEMISTRY EQA

7. CLINICAL CHEMISTRY

Quantitative | **Lyophilized Serum**

ORDER CODE	FORMAT	COMPATIBILITY
CCHM435	**3** test events x **5** samples x **5** mL **3** shipments	**Not compatible** with Abbott Vision analyzers using whole blood for HDL cholesterol.
CCHM432 for waived testing methods only	**3** test events x **2** samples x **5** mL **3** shipments	
CCHM443	**4** test events x **3** samples x **5** mL **3** shipments	

Acid phosphatase, total
Alanine aminotransferase (ALT/SGPT)
Albumin
Alkaline phosphatase
Amylase
Amylase - Pancreatic
Aspartate aminotransferase (AST/SGOT)
Bicarbonate
Bilirubin, direct
Bilirubin, total
Calcium
Chloride
Cholesterol, HDL
Cholesterol, LDL
Cholesterol, total
Cholinesterase
CO2, total
Creatinine kinase (CK)
Creatinine
Ferritin
Gamma-glutamyltransferase (GGT)
Glucose
Iron
Iron, total binding capacity (TIBC)
Lactate
Lactate dehydrogenase (LD)
Lipase
Magnesium
Osmolality
Phosphorus
Potassium
Protein, total
Sodium
Triglycerides
Urea/Urea nitrogen
Uric acid

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

8. CO-OXIMETRY

Quantitative | **Lyophilized Hb solution**

ORDER CODE	FORMAT	COMPATIBILITY
COHB435	**3** test events x **5** samples x **0.5** mL **3** shipments	**Not compatible** with Abbott i-STAT or AVL OPTI CCA.
COHB432 for waived testing methods only	**3** test events x **2** samples x **0.5** mL **3** shipments	

Carboxyhemoglobin
Hemoglobin
Methemoglobin
Oxyhemoglobin
Reduced hemoglobin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

9. CEREBROSPINAL FLUID CHEMISTRY

Quantitative | **Simulated CSF**

ORDER CODE	FORMAT	COMPATIBILITY
CSFT432	**3** test events x **2** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.

Albumin
Chloride
Glucose
Immunoglobulin G (IgG)
Lactate
Lactate dehydrogenase (LD)
Potassium
Protein, total
Sodium

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

10. ENDOCRINOLOGY

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
ENDO435	**3** test events x **5** samples x **5** mL **3** shipments	No known compatibility issues with any method or analyzer.
ENDO432 **for waived testing methods only**	**3** test events x **2** samples x **5** mL **3** shipments	
ENDO443	**4** test events x 3 samples x **5** mL **3** shipments	

17-Hydroxyprogesterone
Aldosterone
Alpha-fetoprotein (AFP)
Androstenedione
Cortisol
DHEA Sulphate
Estradiol
Estriol, unconjugated
Follicle Stimulating Hormone
Fructosamine
Growth Hormone
Human chorionic gonadotropin (hCG)
Insulin
Luteinizing Hormone
Progesterone
Prolactin
Sex Hormone Binding Globulin
Testosterone
Thyroglobulin
Thyroid stimulating hormone (TSH)
Thyroxine (T4)
Thyroxine, free (FT4)
Triiodothyronine (T3)
Triiodothyronine, free (FT3)
T-uptake

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

11. FETAL FIBRONECTIN

Qualitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
FFIB432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Fetal fibronectin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

12. BODY FLUID CHEMISTRY

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
FLCH433	**3** test events x **3** samples x **3** mL **3** shipments	No known compatibility issues with any method or analyzer.

Albumin
Amylase
Cholesterol, total
Creatinine
Glucose
Lactate dehydrogenase (LD)
pH
Protein, total
Triglycerides

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

13. OCCULT BLOOD

Qualitative and/or quantitative | **Simulated fecal material**

ORDER CODE	FORMAT	COMPATIBILITY
FOBD432	**3** test events x **2** samples x **1.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Occult blood

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

14. FECAL OCCULT BLOOD

Qualitative | **Simulated fecal material**

ORDER CODE	FORMAT	COMPATIBILITY
FOBT4123	**12** test events x **3** samples **12** shipments	Not compatible with Immunochemical methods.

Fecal occult blood

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

15. FRUCTOSAMINE

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
FRUC432	**3** test events x **2** samples x **1** mL **3** samples	No known compatibility issues with any method or analyzer.

Fructosamine

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

16. BASIC GLYCATED HEMOGLOBIN

Quantitative | **Stabilized whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
GLHB432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Glycated hemoglobin A1 | Hemoglobin A1c | Total glycated hemoglobin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

17. GASTRIC OCCULT BLOOD

Qualitative and/or quantitative | **Simulated gastric material**

ORDER CODE	FORMAT	COMPATIBILITY
GOBD432	**3** test events x **2** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.

Occult blood pH

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

18. HEMATOCRIT

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
HCRT435	**3** test events x **5** samples x **1.7** mL **3** shipments	Compatible with analyzers using conductivity methods such as AVL, Nova, IL and Radiometer. **Not compatible** with Abbott i-STAT.
HCRT432 **for waived testing methods only**	**3** test events x **2** samples x **1.7** mL **3** shipments	

Hematocrit by conductivity methods

SUBSCRIPTION OPTIONS

Full | ~~+RO~~ | +SO | OC | VA

CHEMISTRY EQA

19. i-STAT BLOOD GAS/ELECTROLYTES/HEMATOCRIT

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
IBGH435	**3** test events x **5** samples x **2.5** mL **3** shipments	Compatible with i-STAT analyzers ***only***.
IBGH432 **for waived testing methods only**	**3** test events x **2** samples x **2.5** mL **3** shipments	

Calcium-ionized
Chloride
Creatinine
CO2 Total
Glucose
Hematocrit
Hemoglobin - Calculated
Lactate
pCO2
pH
pO2
Potassium
Sodium
Urea nitrogen

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

20. KETONES

Qualitative and/or quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
KETN432	**3** test events x **2** samples x **1** mL **3** shipments	**Not compatible** with Abbott MediSense Optium.

Beta-hydroxybutyric acid
Ketones

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

21. NITRAZINE

Qualitative | **Liquid**

ORDER CODE	FORMAT	COMPATIBILITY
NITZ431	**3** test events x **1** sample x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Nitrazine

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

22. RUPTURE OF FETAL MEMBRANE

Qualitative | **Lyophilized solution**

ORDER CODE	FORMAT	COMPATIBILITY
ROFM431	**3** test events x **1** sample x **0.5** mL **3** shipments	Compatible with Amnisure ROM Test ***only***.

PAMG-1 (placental alpha microglobulin-1)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

23. HUMAN CHORIONIC GONADOTROPIN

Qualitative and/or quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
SHCG435	**3** test events x **5** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.
SHCG432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

Human chorionic gonadotropin (hCG)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

24. SPECIAL CHEMISTRY

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
SPCH432	**3** test events x **2** samples x **5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Acid phosphatase, prostatic	Ferritin	Progesterone
Carcinoembryonic antigen (CEA)	Folate	Prolactin
DHEA-sulphate	Follicle stimulating hormone (FSH)	Prostate-specific antigen (PSA), total
Estradiol	Homocysteine	Testosterone
Estriol, total	Luteinizing hormone (LH)	Transferrin
Estriol, unconjugated	Prealbumin	Vitamin B12

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

25. SPECIAL IMMUNOASSAY

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
SPIM432	**3** test events x **2** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.

C-peptide	Parathyroid hormone	Vitamin D, 25-Hydroxy
Insulin		

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CHEMISTRY EQA

26. SPECIFIC PROTEINS

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
SPRO435	**3** test events x **5** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.
SPRO442	**4** test events x **2** samples x **2** mL **3** shipments	

Albumin
Alpha-1-acid glycoprotein
Alpha-1-antitrypsin
Alpha-2-macroglobulin
Alpha-fetoprotein
Antistreptolysin O
Antithrombin III
Beta-2-microglobulin
Ceruloplasmin
Complement C3
Complement C4
C-Reactive protein
Ferritin
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Kappa light chain
Lambda light chain
Prealbumin
Rheumatoid Factor
Retinol binding protein
Transferrin

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

27. SPECIAL URINE CHEMISTRY

Quantitative | **Lyophilized human urine**

ORDER CODE	FORMAT	COMPATIBILITY
SPUC432	**3** test events x **2** samples x **20** mL **3** shipments	No known compatibility issues with any method or analyzer.

17-Hydroxycorticosteroids
17-Ketogenic steroids
3-Methoxytyramines
5-Hydroxyindoleacetic acid
Aldosterone
Catecholamines, free
Coproporphyrins
Cortisol, free
Dopamine
Epinephrine
Homovanillic acid
Metanephrine
Norepinephrine
Normetanephrine
Uroporphyrin
Vanillylmandelic acid

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CHEMISTRY EQA

28. IMMUNOSUPPRESSANTS

Quantitative | **Lyophilized whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
SUPR432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Cyclosporine
Everolimus
Sirolimus
Tacrolimus

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

29. SWEAT TESTING

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
SWEA433	**3** test events x **3** samples x **3** mL **3** shipments	No known compatibility issues with any method or analyzer.

Chloride
Conductivity
Osmolality
Sodium

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

30. PHARMACOLOGY

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
TOXI435	**3** test events x **5** samples x **5** mL **3** shipments	No known compatibility issues with any method or analyzer.
TOXI432 **for waived testing methods only**	**3** test events x **2** samples x **5** mL **3** shipments	
TOXI443	**4** test events x **3** samples x **5** mL **3** shipments	

Acetaminophen
Amikacin
Carbamazepine
Digoxin
Ethosuximide
Gentamicin
Lidocaine
Lithium
N-acetyl procainamide
Phenobarbital
Phenylalanine
Phenytoin
Primidone
Procainamide
Quinidine
Salicylates
Theophylline
Tobramycin
Valproic acid
Vancomycin

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

31. TRACE ELEMENTS - BLOOD

Quantitative | **Lyophilized whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
TRBD432	**3** test events x **2** samples x **5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Arsenic
Cadmium
Chromium
Lead
Manganese
Mercury
Selenium
Thallium

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CHEMISTRY EQA

32. TRACE ELEMENTS - SERUM

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
TRSE432	**3** test events x **2** samples x **3** mL **3** shipments	No known compatibility issues with any method or analyzer.

Aluminium
Cadmium
Calcium
Chromium
Copper
Iron
Magnesium
Manganese
Nickel
Selenium
Silver
Zinc

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

33. TRACE ELEMENTS - URINE

Quantitative | **Lyophilized urine**

ORDER CODE	FORMAT	COMPATIBILITY
TRUR432	**3** test events x **2** samples x **5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Aluminium
Arsenic
Cadmium
Calcium
Chromium
Cobalt
Copper
Creatinine
Fluoride
Iron
Lead
Manganese
Mercury
Molybdenum
Nickel
Selenium
Vanadium
Zinc

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CHEMISTRY EQA

34. TUMOR MARKERS

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
TUMK432	**3** test events x **2** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.
TUMK443	**4** test events x **3** samples x **2** mL **3** shipments	

Alpha-fetoprotein (AFP)
Beta-2-microglobulin
Cancer antigen 125 (CA 125)
Cancer antigen 15-3 (CA15-3)
Cancer antigen 19-9 (CA 19-9)
Cancer antigen 27.29 (CA 27.29))
Carcinoembryonic antigen (CEA)
Ferritin
hCG
Prostate-specific antigen (PSA), complex
PSA, free
PSA, free/total ratio
PSA, total
Thyroglobulin

SUBSCRIPTION OPTIONS

Full +RO **+5 RO FREE** +SO OC VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

CHEMISTRY EQA

35. URINE DRUGS OF ABUSE

Qualitative and/or Quantitative | **Human urine**

ORDER CODE	FORMAT	COMPATIBILITY
UDOA432	**3** test events x **2** sample x **10** mL **3** shipments	No known compatibility issues with any method or analyzer.
UDOA443	**4** test events x **3** sample x **10** mL **3** shipments	

Alprazolam
Amphetamine
Amphetamines/Methamphetamines
Barbiturates
Benzoylecogonine
Benzodiazepines
Buprenorphine
Cannabinoids
Cocaine Derivatives
Codeine
Cotinine
Delta-9-THC-COOH
Diazepam
EDDP
Ethanol
Flunitrazepam
Lorazepam
Lysergic acid diethylamide (LSD)
MDA
MDMA
Methadone
Methamphetamine
Methanol
Methaqualone
Morphine - Total
Morphine - Free
Morphine-3-glucuronide
Nortriptyline
Opiates
Oxycodone
Phencyclidine
Phenobarbital
Propoxyphene
Tricyclic Antidepressants

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

36. URINE hCG

Qualitative | **Urine**

ORDER CODE	FORMAT	COMPATIBILITY
UHCG435	**3** test events x **5** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.
UHCG432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

Human chorionic gonadotropin (hCG)

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CHEMISTRY EQA

37. URINE CHEMISTRY

Quantitative | **Urine**

ORDER CODE	FORMAT	COMPATIBILITY
URCH432	**3** test events x **2** samples x **10** mL **3** shipments	No known compatibility issues with any method or analyzer.

Albumin	Glucose	Protein, total
Amylase	Magnesium	Sodium
Calcium	Osmolality	Urea/Urea nitrogen
Chloride	Phosphorus	Uric acid
Creatinine	Potassium	

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

38. URINALYSIS

Qualitative and/or quantitative | **Urine**

ORDER CODE	FORMAT	COMPATIBILITY
URIN432	**3** test events x **2** samples x **12** mL **3** shipments	No known compatibility issues with any method or analyzer.

Bilirubin	Hemoglobin/Blood	pH
Bilirubin - Confirmatory	Ketones	Protein
Crystal Identification	Leukocyte esterase	Reducing substances
Glucose	Nitrite	Specific gravity
Human chorionic gonadotropin (hCG)	Osmolality	Urobilinogen

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

CHEMISTRY EQA

39. URINE MICROALBUMIN

Qualitative and/or quantitative | **Urine**

ORDER CODE	FORMAT	COMPATIBILITY
URMA432	**3** test events x **2** samples x **3** mL **3** shipments	No known compatibility issues with any method or analyzer.

Albumin / creatinine ratio | Creatinine | Microalbumin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

40. URINE SEDIMENT

Qualitative | **Photo and online digital image**

ORDER CODE	FORMAT	COMPATIBILITY
USED432	**3** test events x **2** photos **3** shipments	Each photo / image comes with a case study. Your results are compared to those of Advisory Committee.

Urine sediment

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

41. WHOLE BLOOD GLUCOSE

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
WGLU435	**3** test events x **5** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.
WGLU432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

Whole blood glucose

SUBSCRIPTION OPTIONS

Full | +RO **+19 RO FREE** | +SO | OC | VA

CHEMISTRY EQA

42. WHOLE BLOOD HEMOGLOBIN

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
WHGN435	**3** test events x **5** samples x **1** mL **3** shipments	**Not compatible** with HemoCue Plasma Low/Hb, Donor Hb Checker or Hb 301 Photometers.
WHGN432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

Hemoglobin

SUBSCRIPTION OPTIONS

Full | +RO **+19 RO FREE** | +SO | OC | VA

POINT OF CARE EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MO — Monthly

NEW - Monthly formats for certain Programs in this section are available. See Monthly EQA section.

POINT OF CARE EQA

1. BASIC CARDIAC MARKERS

Qualitative and/or quantitative | **Plasma**

ORDER CODE	FORMAT	COMPATIBILITY
BCAM432 for waived testing methods only	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

CK-MB (activity)
CK-MB (mass)
Creatine kinase
Lactate dehydrogenase
Myoglobin
Troponin I
Troponin T

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. BLOOD GAS/ELECTROLYTES

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
BGAS432 for waived testing methods only	**3** test events x **2** samples x **2.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Calcium, ionized
Chloride
Creatinine
Glucose
Lactate
Lithium
Magnesium, ionized
pCO2
pH
pO2
Potassium
Sodium
Urea

SUBSCRIPTION OPTIONS

Full | ~~+RO~~ | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

POINT OF CARE EQA

3. CARDIAC MARKERS

Quantitative | **Liquid plasma/serum matrix**

ORDER CODE	FORMAT	COMPATIBILITY
CARM432 for waived testing methods only	**3** test events x **2** sample x **1.5** mL **3** shipments	Compatible with plasma and serum based methods/analyzers.

Creatine Kinase (CK)	D-dimer	NT-proBNP
CK-MB activity	hsCRP	Troponin I
CK-MB mass	Myoglobin	Troponin T

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

4. CLINICAL CHEMISTRY

Quantitative | **Lyophilized serum**

ORDER CODE	FORMAT	COMPATIBILITY
CCHM432 for waived testing methods only	**3** test events x **2** samples x **5** mL **3** shipments	**Not compatible** with Abbott Vision analyzers using whole blood for HDL cholesterol.

Acid Phosphatase	Cholinesterase	LDL cholesterol
Alanine aminotransferase (ALT/SGPT)	CO2, total	Lipase
Albumin	Creatine kinase (CK)	Magnesium
Alkaline phosphatase	Creatinine	Osmolality
Amylase	Ferritin	Phosphorus
Amylase - Pancreatic	Gamma-glutamyltransferase (GGT)	Potassium
Aspartate aminotransferase (AST/SGOT)	Glucose	Protein, total
Bilirubin, direct	HDL cholesterol	Sodium
Bilirubin, total	Iron	Triglycerides
Calcium	Iron, total binding capacity (TIBC)	Urea nitrogen
Chloride	Lactate	Uric acid
Cholesterol, total	Lactate dehydrogenase (LD)	

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

POINT OF CARE EQA

5. CO-OXIMETRY

Quantitative | **Lyophilized Hb solution**

ORDER CODE	FORMAT	COMPATIBILITY
COHB432 for waived testing methods only	**3** test events x **2** samples x **0.5** mL **3** shipments	**Not compatible** with Abbott i-STAT or AVL OPTI CCA.

Carboxyhemoglobin
Hemoglobin
Methemoglobin
Oxyhemoglobin
Reduced hemoglobin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

6. HEMATOCRIT

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
HCRT432 for waived testing methods only	**3** test events x **2** samples x **1.7** mL **3** shipments	Compatible with analyzers using conductivity methods such as AVL, Nova, IL and Radiometer. **Not compatible** with Abbott i-STAT.

Hematocrit by conductivity methods

SUBSCRIPTION OPTIONS

Full | ~~+RO~~ | +SO | OC | VA

7. i-STAT BLOOD GAS/ELECTROLYTES/HEMATOCRIT

Quantitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
IBGH432 for waived testing methods only	**3** test events x **2** samples x **2.5** mL **3** shipments	Compatible with i-STAT analyzers ***only***.

Calcium-ionized
Chloride
Creatinine
CO2 Total
Glucose
Hematocrit
Hemoglobin - Calculated
Lactate
pCO2
pH
pO2
Potassium
Sodium
Urea nitrogen

SUBSCRIPTION OPTIONS

Full | ~~+RO~~ | +SO | OC | VA

POINT OF CARE EQA

8. NITRAZINE

Qualitative | **Liquid**

ORDER CODE	FORMAT	COMPATIBILITY
NITZ431	**3** test events x **1** sample x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Nitrazine

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

9. PLASMA PROTHROMBIN TIME XS POC

Quantitative | **Lyophilized Plasma**

ORDER CODE	FORMAT	COMPATIBILITY
PLPX431	**3** test events x **1** sample x **0.3** mL **3** shipments	Compatible with Roche CoaguChek XS, CoaguChek XS Plus & CoaguChek XS Pro analyzers ***only***.

International Normalized Ratio (INR)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

10. RUPTURE OF FETAL MEMBRANE

Qualitative | **Lyophilized solution**

ORDER CODE	FORMAT	COMPATIBILITY
ROFM431	**3** test events x **1** sample x **0.5** mL **3** shipments	Compatible with Amnisure ROM Test ***only***.

PAMG-1 (placental alpha microglobulin-1)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

POINT OF CARE EQA

11. URINE DRUGS OF ABUSE

Qualitative and/or quantitative | **Human urine**

ORDER CODE	FORMAT	COMPATIBILITY
UDOA432	**3** test events x **2** samples x **10** mL **3** shipments	Compatible with all analyzers and methods requiring 10 mL or less of sample. Participants requiring greater than 10mL sample volume must order additional Sample-only subscriptions as necessary.

Alprazolam
Amphetamine
Amphetamines/Methamphetamines
Barbiturates
Benzodiazepines
Benzoylecogonine
Buprenorphine
Cannabinoid
Cocaine Derivatives
Codeine
Cotinine
Delta-9-THC-COOH
Diazepam
EDDP
Ethanol
Flunitrazepam
Lorazepam
Lysergic acid diethylamide (LSD)
MDA
MDMA
Methadone
Methamphetamine
Methanol
Methaqualone
Morphine - Total
Morphine - Free
Morphine-3-glucuronide
Nortriptyline
Opiates
Oxycodone
Phencyclidine
Phenobarbital
Propoxyphene
Tricyclic Antidepressants

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

12. URINALYSIS

Qualitative and/or quantitative | **Urine**

ORDER CODE	FORMAT	COMPATIBILITY
URIN432	**3** test events x **2** samples x **12** mL **3** shipments	No known compatibility issues with any method or analyzer.

Bilirubin
Bilirubin - Confirmatory
Crystal Identification
Glucose
Hemoglobin / Blood
Human chorionic gonadotropin (hCG)
Ketones
Leukocyte esterase
Nitrite
Osmolality
pH
Protein
Reducing substances
Specific gravity
Urobilinogen

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

POINT OF CARE EQA

13. WHOLE BLOOD GLUCOSE

Quantitative | Whole blood

ORDER CODE	FORMAT	COMPATIBILITY
WGLU432 for waived testing methods only	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Whole blood glucose

SUBSCRIPTION OPTIONS

Full | +RO **+19 RO FREE** | +SO | OC | VA

14. WHOLE BLOOD HEMOGLOBIN

Quantitative | Whole blood

ORDER CODE	FORMAT	COMPATIBILITY
WHGN432 for waived testing methods only	**3** test events x **2** samples x **1** mL **3** shipments	**Not compatible** with HemoCue Plasma Low/Hb, Donor Hb Checker or Hb 301Photometers.

Hemoglobin

SUBSCRIPTION OPTIONS

Full | +RO **+19 RO FREE** | +SO | OC | VA

HEMATOLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all 3 test event Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

The following Test Event Calendar applies for all 6 test event Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, January 21	21 days	Wednesday, February 11
2	Wednesday, March 25	21 days	Wednesday, April 15
3	Wednesday, May 27	21 days	Wednesday, June 17
4	Wednesday, July 08	21 days	Wednesday, July 29
5	Wednesday, August 26	21 days	Wednesday, September 16
6	Wednesday, October 21	21 days	Wednesday, November 11

HEMATOLOGY EQA

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MO	
Monthly	NEW - Monthly formats for certain Programs in this section are available. See Monthly EQA section.

HEMATOLOGY EQA

1. BODY FLUIDS

Qualitative and/or quantitative | **Protein solution**

ORDER CODE	FORMAT	COMPATIBILITY
BFLD432	**3** test events x **2** samples x **2** mL **3** shipments	Compatible with all hemocytometers. Not compatible with automated methods.

Red blood cell count

White blood cell count

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. CELL MORPHOLOGY

Qualitative | **Photo and online digital image**

ORDER CODE	FORMAT	COMPATIBILITY
CELL435	**3** test events x **5** photos **3** shipments	Each photo / image comes with a case study and relevant laboratory data. Your results are compared to those of Advisory Committee and the laboratory group consensus.

Cell morphology

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

3. ERYTHROCYTE SEDIMENTATION RATE

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
ERSR432	**3** test events x **2** samples x **5** mL **3** shipments	**Not compatible** with HemaTechnologies ESR STAT PLUS, ESR STAT 80 and Alifax Test 1.

Erythrocyte sedimentation rate (ESR)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

HEMATOLOGY EQA

4. ERYTHROCYTE SEDIMENTATION RATE FOR ALIFAX

Quantitative | **Synthetic latex solution**

ORDER CODE	FORMAT	COMPATIBILITY
ESRA433	**3** test events x **3** samples x **3** mL **3** shipments	Compatible ***only*** with Alifax Test 1, Microtest 1, Roller 10, Roller 20, Jo-Plus.

Erythrocyte sedimentation rate (ESR)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

5. FLOW CYTOMETRY PROGENITOR CELLS

Quantitative | **Simulated whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
FLPG432	**3** test events x **2** samples x **1.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

CD34+ White blood cell count

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

6. FETAL RBC AND F CELL DETECTION

Qualitative and/or quantitative | **Stabilized RBC**

ORDER CODE	FORMAT	COMPATIBILITY
FRBC432	**3** test events x **2** samples x **1.2** mL **3** shipments	Please see the compatibility details below.

F cell value - compatible with flow cytometry methods.
Hemoglobin F (Qualitative) - compatible with E-rosette testing for D (Rho) fetal red blood cells in the maternal circulation.
Hemoglobin F (Quantitative) - compatible with Kleihauer-Betke and flow cytometry methods.

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

HEMATOLOGY EQA

7. HEMATOLOGY 5-PART DIFFERENTIAL

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
HEFA465	**6** test events x **5** samples x **3** mL **6** shipments	Compatible with Radim SEAC Genius and Coulter STKS, MAXM, HmX, LH series, VCS, GENS and UniCel DxH 800 analyzers.
HEFA435	**3** test events x **5** samples x **3** mL **3** shipments	
HEFB465	**6** test events x **5** samples x **3** mL **6** shipments	Compatible with Melet Schloesing MS9-5 and Bayer Technicon H*1, H*2, H*3 and ADVIA 120 and 2120 analyzers.
HEFB435	**3** test events x **5** samples x **3** mL **3** shipments	
HEFD465	**6** test events x **5** samples x **3** mL **6** shipments	Compatible with Bayer ADVIA 70, Biocode Hycel Xenia, Boule Quintas, Danam EXCELL 22, Diatron Abacus 5 & Junior 5, Nihon Celltac E MEK-7222 & F MEK-8222, Abbott Cell Dyn 3000, 3200, 3500, 3700, 4000, Ruby & Sapphire analyzers.
HEFD435	**3** test events x **5** samples x **3** mL **3** shipments	
HEFE465	**6** test events x **5** samples x **2.5** mL **6** shipments	Compatible with Coulter AcT 5 Diff and ABX Pentra 60, 60 C+, 80, XL 80, 120, Argos, Minos & Helios analyzers.
HEFE435	**3** test events x **5** samples x **2.5** mL **3** shipments	
HEFF465	**6** test events x **5** samples x **2.5** mL **6** shipments	Compatible with Diagon D-Cell 5 D and Sysmex SE9000/9500/9500R, SF3000 analyzers.
HEFF435	**3** test events x **5** samples x **2.5** mL **3** shipments	
HEFG465	**6** test events x **5** samples x **4.5** mL **6** shipments	Compatible with Horiba Pentra DX/DF Nexus, Mindray BC-6800 and Sysmex NE1500/5500/8000, XE2100/5000, XN1000, XS800i/1000i/1000iC and XT800i/2000i/4000i analyzers.
HEFG435	**3** test events x **5** samples x **4.5** mL **3** shipments	
HEFH465	**6** test events x **5** samples x **3** mL **6** shipments	Compatible with Mindray BC-5100, BC-5100Vet, BC-5200, BC-5300, BC-5300Vet & BC-5500 analyzers.
HEFH435	**3** test events x **5** samples x **3** mL **3** shipments	

HEMATOLOGY 5-PART DIFFERENTIAL CONTINUED ON NEXT PAGE.

HEMATOLOGY EQA

HEMATOLOGY 5-PART DIFFERENTIAL CONTINUED FROM PREVIOUS PAGE.

ORDER CODE	FORMAT	COMPATIBILITY
HEFI465	**6** test events x **5** samples x **3** mL **6** shipments	Compatible with Orphee Mythic 22 analyzer.
HEFI435	**3** test events x **5** samples x **3** mL **3** shipments	

Hematocrit
Hemoglobin
Mean corpuscular hemoglobin (MCH)
Mean corpuscular hemoglobin concentration (MCHC)
Mean corpuscular volume (MCV)
Platelet count
Red blood cell count
Red cell distribution width (RDW)
WBC differential (Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils)
White blood cell count

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

8. HEMATOLOGY

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
HEMA465	**6** test events x **5** samples x **2** mL **6** shipments	Compatible with all manual, semi-automated and automated CBC methods. **Not compatible** with BD QBC analyzers.
HEMA435	**3** test events x **5** samples x **2** mL **3** shipments	
HEMA432 **for waived testing methods only**	**3** test events x **2** samples x **2** mL **3** shipments	

Hematocrit (by analyzer or spun)
Hemoglobin
Mean corpuscular hemoglobin (MCH)
Mean corpuscular hemoglobin concentration (MCHC)
Mean corpuscular volume (MCV)
Platelet count
Red blood cell count
Red cell distribution width (RDW)
White blood cell count

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

HEMATOLOGY EQA

9. HEMATOLOGY 3-PART DIFFERENTIAL

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
HETA465	**6** test events x **5** samples x **2** mL **6** shipments	Compatible with Abbott Cell Dyn 300-800/610/900/1400/1500/1600; ABX/Baker Minos STE/STEL/STEX/STX, Micros 45/60, Helios LMG, Spirit & Argos LMG; Bayer ADVIA 60; Biorexfars CELLDIFF-3; Coulter AcT Diff/Diff 2/8/10, JT/JT2/JT3, MD 284/II/II 8/II 10/II 16, ONYX, S Plus IV/V/VI, S880, ST/STKR, T540/T660/T890; Danam DC 16CP/18, EXCELL 16/18; Diatron Abacus; Drew Scientific Drew-3; Human HumaCount/30TS/60TS; Medonic CA 620/530/M16/M20; Mindray BC-2800/3000Plus/3200; Melet Schloesing MS4/9/9-3; Nihon Celltac MEK-6318/6400/6410/6420; Orphee Mythic 18; PointCare Now; Radim HeCo C/S/Plus; URIT-3300.
HETA435	**3** test events x **5** samples x **2** mL **3** shipments	
HETB465	**6** test events x **5** samples x **2** mL **6** shipments	Compatible ***only*** with Sysmex K-series/pocH-100i, Abbott Cell Dyn 1200/1700/1800/Emerald, ABX/Baker 9000/9100 and Human HumaCount Plus analyzers.
HETB435	**3** test events x **5** samples x **2** mL **3** shipments	

Hematocrit
Hemoglobin
Mean corpuscular hemoglobin (MCH)
Mean corpuscular hemoglobin concentration (MCHC)
Mean corpuscular volume (MCV)
Platelet count
Red blood cell count
Red cell distribution width (RDW)
WBC differential (Granulocytes, Lymphocytes, Monocytes)
White blood cell count

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

10. LYMPHOCYTE IMMUNOPHENOTYPING

Quantitative | **Simulated whole blood**

This program is being conducted in conjunction with the internationally recognized QASI EQA program founded in 1997 by the National Laboratory for HIV Immunology of the Public Health Agency of Canada (Science Architect).

ORDER CODE	FORMAT	COMPATIBILITY
QASI432	**3** test events x **2** samples x **2.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

CD19 (B Cells)
CD3 (T Cells)
CD4 (T Helper)
CD45 (Leukocytes)
CD56/CD16+56 (NK Cells)
CD8 (T Cytotoxic)
Lymphocytes
White blood cell count

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

HEMATOLOGY EQA

11. RETICULOCYTES

Quantitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
RETA432	**3** test events x **2** samples x **3** mL **3** shipments	Compatible with new methylene blue stain and automated methods. **Not compatible** with Abbott Cell-Dyn (3000, 3200, 3500, 3700, 4000), Coulter GENS and LH series analyzers.
RETB432	**3** test events x **2** samples x **3** mL **3** shipments	Compatible ***only*** with Abbott Cell-Dyn 3000, 3200, 3500, 3700, 4000 and Ruby analyzers.
RETC432	**3** test events x **2** samples x **4** mL **3** shipments	Compatible ***only*** with Coulter GENS and LH series analyzers.

Red blood cell count Reticulocyte count

SUBSCRIPTION OPTIONS

Full +RO **+5 RO FREE** +SO OC VA

12. SICKLE CELL SCREENING

Qualitative | **Whole blood**

ORDER CODE	FORMAT	COMPATIBILITY
SCSC432	**3** test events x **2** samples x **0.9** mL **3** shipments	No known compatibility issues with any method or analyzer.

Sickle cell screening

SUBSCRIPTION OPTIONS

Full +RO **+5 RO FREE** +SO OC VA

COAGULATION EQA

2015 Test Event Calendar

The following Test Event Calendar applies for COAG435, COAG432, DDIM432, ORAC432, PLPX431 and THBP432.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

The following Test Event Calendar applies for COAG443, DDIM442 and THBP442.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11
4	Wednesday, November 25	21 days	Wednesday, December 16

COAGULATION EQA

The following Test Event Calendar applies for COAG465

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, January 21	21 days	Wednesday, February 11
2	Wednesday, March 25	21 days	Wednesday, April 15
3	Wednesday, May 27	21 days	Wednesday, June 17
4	Wednesday, July 08	21 days	Wednesday, July 29
5	Wednesday, August 26	21 days	Wednesday, September 16
6	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MO

Monthly

NEW - Monthly formats for certain Programs in this section are available. See Monthly EQA section.

COAGULATION EQA

1. COAGULATION

Quantitative | **Lyophilized plasma**

ORDER CODE	FORMAT	COMPATIBILITY
COAG465	**6** test events x **5** samples x **1** mL **6** shipments	**Not compatible** with Roche CoaguChek, Ciba Corning Biotrack, Dupont Coumatrak, ITC Hemochron Jr./Signature series, i-STAT PCA, i-STAT I, ITC Protime and whole blood methods.
COAG435	**3** test events x **5** samples x **1** mL **3** shipments	
COAG432	**3** test events x **2** samples x **1** mL **3** shipments	
COAG443	**4** test events x **3** samples x **1** mL **3** shipments	

Activated partial thromboplastin time (APTT)
Anti-thrombin III
Fibrinogen
International Normalized Ratio (INR)
Prothrombin time (PT)
Thrombin Time

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MO NEW - A monthly format of this Program is available. See Monthly EQA section.

2. D-DIMER

Qualitative and/or quantitative | **Lyophilized plasma**

ORDER CODE	FORMAT	COMPATIBILITY
DDIM432	**3** test events x **2** samples x **1** mL **3** shipments	Compatible with all analyzers and methods using plasma. **Not compatible** with AGEN SimpliRED.
DDIM442	**4** test events x **2** samples x **1** mL **3** shipments	

D-dimer

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

COAGULATION EQA

3. ORAL ANTICOAGULANT MONITORING

Quantitative | Lyophilized plasma

ORDER CODE	FORMAT	COMPATIBILITY
ORAC432	**3** test events x **2** samples x **1** mL **3** shipments	Not compatible with Point of Care devices.

International Normalized Ratio (INR) Prothrombin Time

SUBSCRIPTION OPTIONS

Full +RO **+5 RO FREE** +SO OC VA

4. PLASMA PROTHROMBIN TIME XS POC

Quantitative | Lyophilized plasma

ORDER CODE	FORMAT	COMPATIBILITY
PLPX431	**3** test events x **1** sample x **0.3** mL **3** shipments	Compatible with Roche CoaguChek XS, CoaguChek XS Plus & CoaguChek XS Pro analyzers ***only***.

International Normalized Ratio (INR)

SUBSCRIPTION OPTIONS

Full +RO **+5 RO FREE** +SO OC VA

5. THROMBOPHILIA

Qualitative and quantitative | Lyophilized plasma

ORDER CODE	FORMAT	COMPATIBILITY
THBP432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.
THBP442	**4** test events x **2** samples x **1** mL **3** shipments	

Activated Protein C resistance (APC resistance) Protein C activity Protein C antigen Protein S antigen, free Protein S activity

SUBSCRIPTION OPTIONS

Full +RO **+5 RO FREE** +SO OC VA

TRANSFUSION MEDICINE EQA

2015 Test Event Calendar

The following Test Event Calendar applies all 3 test event Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

The following Test Event Calendar applies for all 4 test event Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11
4	Wednesday, November 25	21 days	Wednesday, December 16

Subscription Options

The following Subscription options are available for Programs in this section.

Full

Report-only

Sample-only

Off-cycle

Validation

TRANSFUSION MEDICINE EQA

1. BASIC TRANSFUSION MEDICINE

Qualitative | **Simulated whole blood (15% hematocrit)**

ORDER CODE	FORMAT	COMPATIBILITY
BTME435	**3** test events x **5** samples x **4** mL **3** shipments	Compatible with manual and automated methods.

ABO grouping | Rh (D) grouping | Unexpected antibody detection

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. COMPREHENSIVE TRANSFUSION MEDICINE

Qualitative | **Simulated whole blood (15% hematocrit)** **Donor red blood cell suspension (25% hematocrit)**

ORDER CODE	FORMAT	COMPATIBILITY
CTME435	**3** test events x **5** samples x **4** mL plus one **2** mL Donor cell suspension **3** shipments	Compatible with manual and automated methods.

ABO grouping
Antibody identification

Compatibility testing
Red blood cell antigen detection

Rh (D) grouping
Unexpected antibody detection

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

3. DIRECT ANTIGLOBULIN TESTING

Qualitative | **Red blood cell suspension**

ORDER CODE	FORMAT	COMPATIBILITY
DATG432	**3** test events x **2** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Direct antiglobulin testing (DAT)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

TRANSFUSION MEDICINE EQA

4. IMMUNOHEMATOLOGY

Qualitative | **Simulated whole blood (8% hematocrit)** • **Compatibility testing will be offered in two of the four planned test events**

ORDER CODE	FORMAT	COMPATIBILITY
IMHE442	**4** test events x **2** samples x **4** mL **3** shipments	Compatible with manual and automated methods

ABO grouping
Antibody identification

Red blood cell antigen detection
Compatibility testing

Rh (D) grouping
Unexpected antibody detection

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CLINICAL MICROSCOPY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

CLINICAL MICROSCOPY EQA

1. FECAL SMEAR

Qualitative | Photo

ORDER CODE	FORMAT	COMPATIBILITY
FECS431	**3** test events x **1** photo **3** shipments	No known compatibility issues with any method or analyzer.

Fecal smear for WBC

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

2. FERN TEST

Qualitative | Photo

ORDER CODE	FORMAT	COMPATIBILITY
FERN431	**3** test events x **1** photo **3** shipments	No known compatibility issues with any method or analyzer.

Amniotic fluid detection

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

3. KOH PREPARATION

Qualitative | Photo

ORDER CODE	FORMAT	COMPATIBILITY
KOHP431	**3** test events x **1** photo **3** shipments	No known compatibility issues with any method or analyzer.

Fungal/yeast detection

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CLINICAL MICROSCOPY EQA

4. NASAL SMEAR

Qualitative | Photo

ORDER CODE	FORMAT	COMPATIBILITY
NASM431	**3** test events x **1** photo **3** shipments	No known compatibility issues with any method or analyzer.

Nasal smear for eosinophils

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

5. PINWORM PREPARATION

Qualitative | Photo

ORDER CODE	FORMAT	COMPATIBILITY
PINW431	**3** test events x **1** photo **3** shipments	No known compatibility issues with any method or analyzer.

Pinworm detection

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

6. VAGINAL PREPARATION

Qualitative | Photo

ORDER CODE	FORMAT	COMPATIBILITY
VAGP431	**3** test events x **1** photo **3** shipments	No known compatibility issues with any method or analyzer.

Vaginal wet preparation

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

DIAGNOSTIC IMMUNOLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section with the exception of ALLY443 and FOOD443.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

The following Test Event Calendar applies for ALLY443 and FOOD443.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11
4	Wednesday, November 25	21 days	Wednesday, December 16

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

DIAGNOSTIC IMMUNOLOGY EQA

1. ANTIPHOSPHOLIPID AUTOIMMUNITY

Qualitative and quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AIAP432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Anti-beta-2-glycoprotein I (Anti B2-GPI) Anticardiolipin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. RHEUMATOLOGIC ARTHRITIS AUTOIMMUNITY

Qualitative and quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AIAR432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Rheumatoid factor VCP / CCP IgG

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

3. ANTI-NEUTROPHIL CYTOPLASM AUTOIMMUNITY

Qualitative and quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AICN432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

ANCA

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

DIAGNOSTIC IMMUNOLOGY EQA

4. COELIAC DISEASE

Qualitative and quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AICO432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Antiendomysial antibody (EMA) IgA
Antigliadin antibody (AGA) - IgA and IgG
Antitissue transglutaminase antibody (tTG) - IgA and IgG

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

5. ORGAN AUTOIMMUNITY

Qualitative and quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AIOR432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Antimitochondrial M2 antibody (AMA)
Anti-parietal cell antibody (APCA)
Anti-smooth muscle antibody (ASMA)
Liver-kidney microsomal antibody (LKM)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

6. RHEUMATOLOGIC AUTOIMMUNITY

Qualitative and quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AIRH432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

ANA
Anti-dsDNA
ENA

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

DIAGNOSTIC IMMUNOLOGY EQA

7. THYROID AUTOIMMUNITY

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
AITH433	**3** test events x **3** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Antithyroglobulin antibody (Ab anti TG)
Antithyroid peroxidase antibody (Ab anti TPO)
Thyroglobulin

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

8. INHALANT ALLERGY

Quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
ALLY433	**3** test events x **3** samples x **2** mL **3** shipments	No known compatibility issues with any method or analyzer.
ALLY443	**4** test events x **3** samples x **2** mL **3** shipments	

Acarus
Epithelia
Graminaceous plants
Grass
Hymenoptera
Latex
Trees

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

DIAGNOSTIC IMMUNOLOGY EQA

9. ANTI-NUCLEAR ANTIBODY

Qualitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
ANAB435	**3** test events x **5** samples x **0.6** mL **3** shipments	**Not compatible** with latex agglutination method.

Anti-nuclear antibody (ANA)
Anti-ENA
Anti-DNA (ds, ss)
Anti-RNP
Anti-Sm
Anti-SSA
Anti-SSB

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

10. ANTI-NUCLEAR ANTIBODY

Qualitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
ANAL435	**3** test events x **5** samples x **1** mL **3** shipments	Compatible with ***only*** latex agglutination method.

Anti-nuclear Antibody (ANA)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

11. ANTI-STREPTOLYSIN O

Qualitative and/or quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
ANSO435	**3** test events x **5** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Anti-streptolysin O (ASO)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

DIAGNOSTIC IMMUNOLOGY EQA

12. C-REACTIVE PROTEIN

Qualitative and quantitative | Serum

ORDER CODE	FORMAT	COMPATIBILITY
CRPR432	**3** test events x **2** samples x **1** mL **3** shipments	Compatible with all analyzers and methods that measure levels greater than 1.0 mg/dL.

C-reactive protein (CRP)

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

13. FOOD ALLERGY

Quantitative | Serum

ORDER CODE	FORMAT	COMPATIBILITY
FOOD433	**3** test events x **3** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.
FOOD443	**4** test events x **3** samples x **0.5** mL **3** shipments	

Main allergens

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

14. HIGH SENSITIVITY C-REACTIVE PROTEIN

Quantitative | Serum

ORDER CODE	FORMAT	COMPATIBILITY
HCRP432	**3** test events x **2** samples x **0.5** mL **3** shipments	Compatible with all analyzers and methods that measure levels of 0 - 1.5 mg/dL.

High sensitivity C-reactive protein

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

DIAGNOSTIC IMMUNOLOGY EQA

15. RHEUMATOID FACTOR

Qualitative and/or quantitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
RHFA435	**3** test events x **5** samples x **1** mL **3** shipments	No known compatibility issues with any method or analyzer.

Rheumatoid factor

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CLINICAL SEROLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

CLINICAL SEROLOGY EQA

1. VIRAL ANTIGEN DETECTION

Qualitative | **Aqueous solution**

ORDER CODE	FORMAT	COMPATIBILITY
AVIR435	**3** test events x **5** samples x **1** mL **3** shipments	**Not compatible** with immunofluorescence assays.

Adenovirus
Influenza A
Influenza A and/or B
Respiratory syncytial virus
Rotavirus

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. EBV SEROLOGY

Quantitative and/or qualitative | **Lyophilized solution**

ORDER CODE	FORMAT	COMPATIBILITY
EBVS435	**3** test events x **5** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.
EBVS432	**3** test events x **2** samples x **0.5** mL **3** shipments	

EBV Viral Capsid Antigen (VCA) IgG
EBV Viral Capsid Antigen (VCA) IgM
EBV Early Antigen (EA) IgG
EBV Nuclear Antigen (NA) IgG

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CLINICAL SEROLOGY EQA

3. HEPATITIS SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid human plasma**

UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
HEPM4310	**3** test events x **10** samples x **1.8** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.
HEPM435	**3** test events x **5** samples x **1.8** mL **3** shipments NA to participants in Australia and NZ.	

Anti-HAV IgG	Anti-HBc Total	HBeAg
Anti-HAV IgM	Anti-HBe	HBsAg
Anti-HAV Total	Anti-HBs	HCV Ag
Anti-HBc IgM	Anti-HCV	

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

4. HIV

Qualitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
HIVA435	**3** test events x **5** samples x **1** mL **3** shipments	Compatible with all analyzers and methods including Orasure OraQuick Rapid HIV-1 Antibody Test Kit.
HIVA432 **for waived testing methods only**	**3** test events x **2** samples x **1** mL **3** shipments	

Anti-HIV-1	Anti-HIV-1/2	Anti-HIV-2

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CLINICAL SEROLOGY EQA

5. HIV SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid, human plasma**

ORDER CODE	FORMAT	COMPATIBILITY
HIVC4310	**3** test events x **10** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.
HIVC435	**3** test events x **5** samples x **1** mL **3** shipments	

Anti-HIV-1
Anti-HIV-1/2
Anti-HIV-2
HIV Ag

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

6. HIV INSTI

CEQAL THE TRUE MEASURE OF QUALITY | Science architect

Qualitative | **Liquid, human plasma**

ORDER CODE	FORMAT	COMPATIBILITY
HIVN435	**3** test events x **5** samples x **0.1** mL **3** shipments	Compatible with INSTI HIV-1 Antibody test kit only.
HIVN432	**3** test events x **2** samples x **0.1** mL **3** shipments	

Anti-HIV-1

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

CLINICAL SEROLOGY EQA

7. HELICOBACTER PYLORI ANTIBODY

Qualitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
HPYL432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Helicobacter pylori antibody

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

8. HERPES SIMPLEX

Qualitative | **Lyophilized serum** UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
HSVC432	**3** test events x **2** samples x **0.6** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.

Herpes simplex antibodies

SUBSCRIPTION OPTIONS

Full | ~~+RO~~ | +SO | OC | VA

9. HTLV SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid, human plasma**

ORDER CODE	FORMAT	COMPATIBILITY
HTLV4310	**3** test events x **10** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.
HTLV435	**3** test events x **5** samples x **1** mL **3** shipments	

Anti-HTLV

SUBSCRIPTION OPTIONS

Full | ~~+RO~~ | +SO | OC | VA

CLINICAL SEROLOGY EQA

10. LYME DISEASE

Qualitative | Serum

ORDER CODE	FORMAT	COMPATIBILITY
LYME432	**3** test events x **2** samples x **0.6** mL **3** shipments	No known compatibility issues with any method or analyzer.

Lyme disease - *Borrelia burgdorferi*

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

11. INFECTIOUS MONONUCLEOSIS

Qualitative and/or quantitative | Serum

ORDER CODE	FORMAT	COMPATIBILITY
MONO435	**3** test events x **5** samples x **0.6** mL **3** shipments	Compatible with latex agglutination and hemagglutination methods.
MONO432 **for waived testing methods only**	**3** test events x **2** samples x **0.6** mL **3** shipments	

Infectious mononucleosis — Infectious mononucleosis heterophile antibodies

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

12. MYCOPLASMA ANTIBODY

Qualitative | Serum

ORDER CODE	FORMAT	COMPATIBILITY
MYPL432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Mycoplasma antibody

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

CLINICAL SEROLOGY EQA

13. TOXOPLASMA, RUBELLA AND CMV SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid, human plasma** — UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
TORC435	**3** test events x **5** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.

Anti-CMV IgG	Anti-Toxoplasma IgG	Rubella IgG
Anti-CMV IgM	Anti-Toxoplasma IgM	Rubella IgM

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

14. SYPHILIS SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid, human plasma** — UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
TREP4310	**3** test events x **10** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.
TREP435	**3** test events x **5** samples x **1** mL **3** shipments	

Anti-*Treponema pallidum*	Non-Treponemal antibodies

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

CLINICAL NUCLEIC ACID TESTING EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section. HIVG425 and HIVT425 have only two test events following the same opening and deadline dates as listed for Test Events 1 and 3.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, February 25	21 days	Wednesday, March 18
2	Wednesday, June 03	21 days	Wednesday, June 24
3	Wednesday, September 09	21 days	Wednesday, September 30

Subscription Options

The following Subscription options are available for Programs in this section.

Full

Report-only

Sample-only

Off-cycle

Validation

CLINICAL NUCLEIC ACID TESTING EQA

1. CMV DNA QUALITATIVE & VIRAL LOAD

NRL Science of Quality | Science architect

Qualitative and quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
CMVN435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

CMV DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

2. C. TRACHOMATIS | N. GONORRHOEAE DNA QUALITATIVE

NRL Science of Quality | Science architect

Qualitative | Clinical samples

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
CTNG435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

Chlamydia trachomatis DNA | *Neisseria gonorrhoeae* DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

3. HAV RNA & PARVOVIRUS B19 DNA

NRL Science of Quality | Science architect

Qualitative and quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HAPN435	**3** test events x **5** samples x **2.4** mL **1** shipment	No known compatibility issues with any method or analyzer.

HAV RNA | Parvovirus B19 DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

CLINICAL NUCLEIC ACID TESTING EQA

4. HBV DNA VIRAL LOAD

NRL Science of Quality | Science architect

Quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HBVL435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

HBV DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

5. HCV GENOTYPING

NRL Science of Quality | Science architect

Qualitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	COMPATIBILITY	COMPATIBILITY
HCVG435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

HCV genotype

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

6. HCV RNA VIRAL LOAD

NRL Science of Quality | Science architect

Quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HCVL435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

HCV RNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

CLINICAL NUCLEIC ACID TESTING EQA

7. HCV RNA QUALITATIVE

NRL Science of Quality | Science architect

Qualitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HCVN435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

HCV RNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

8. HIV-1 GENOTYPIC DRUG RESISTANCE

NRL Science of Quality | Science architect

Qualitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HIVG425	**2** test events x **5** samples x **0.5** mL **1** shipment	No known compatibility issues with any method or analyzer.

HIV-1 anti-viral drug resistant mutations

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

9. HIV-1 RNA VIRAL LOAD

NRL Science of Quality | Science architect

Quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HIVL435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

HIV-1 RNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

CLINICAL NUCLEIC ACID TESTING EQA

10. HIV TROPISM

NRL Science of Quality | Science architect

*New Program

Qualitative | DNA and chromatograms

ORDER CODE	FORMAT	COMPATIBILITY
HIVT425	**2** test events x **5** (or more) samples **2** shipments	No known compatibility issues with any method or analyzer.

HIV co-receptor tropism

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

11. HSV-1/2 DNA QUALITATIVE

NRL Science of Quality | Science architect

Qualitative | Clinical samples

UN 3373 | UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HSVN435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

HSV-1 DNA | HSV-1/2 DNA | HSV-2 DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

BLOOD SCREENING EQA

Programs in this section are suitable for laboratories screening for blood and/or blood products for transfusion and transplantation. NRL is the Science Architect for these Programs, which have been designed to assist participants to monitor and compare their testing processes and systems with others used around the world to identify and correct sources of error.

As well, NRL is the founder and manager of an international quality network in which NRL directly provides Blood Screening EQA Programs to all participants in Australia and New Zealand and to national blood screening organizations and plasma fractionators outside Australia and New Zealand. This network is comprised of participants from over 40 countries.

Accordingly, all national blood screening organizations will be enrolled in these Blood Screening EQA Programs directly with NRL as part of this NRL quality network. All other participants outside of Australia and New Zealand in these Programs will be enrolled with their respective Collaboration Member.

In addition to EQA, NRL also provides other support services to blood screening laboratories and plasma fractionators to ensure the safety of their blood supply. These support services include:

- Quality Control Programs designed to assess the accuracy and precision of results on a daily basis;
- A Specificity Monitoring Program that ensures screening blood and/or blood-borne infectious diseases is cost effective and efficacious to reduce blood wastage;
- Reference testing on difficult-to-diagnose samples;
- Assistance in commissioning new testing platforms through the provision of specifically designed validation panels;

For more information about these support services, please contact NRL at oneworldaccuracy@nrl.gov.au.

BLOOD SCREENING EQA

2015 Test Event Calendar

The following Test Event Calendar applies for HTLV4310, MMBS4320, TORC435 and TREP4310.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

The following Test Event Calendar applies for CMVN435, HAPN435 and NATA4315.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, February 25	21 days	Wednesday, March 18
2	Wednesday, June 03	21 days	Wednesday, June 24
3	Wednesday, September 09	21 days	Wednesday, September 30

Subscription Options

The following Subscription options are available for Programs in this section.

Full

Report-only

Sample-only

Off-cycle

Validation

BLOOD SCREENING EQA

1. CMV DNA QUALITATIVE & VIRAL LOAD

NRL Science of Quality | Science architect

Qualitative and quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
CMVN435	**3** test events x **5** samples x **1.2** mL **1** shipment	No known compatibility issues with any method or analyzer.

CMV DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

2. HAV RNA & PARVOVIRUS B19 DNA

NRL Science of Quality | Science architect

Qualitative and quantitative | Frozen human plasma

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
HAPN435	**3** test events x **5** samples x **2.4** mL **1** shipment	No known compatibility issues with any method or analyzer.

HAV RNA | Parvovirus B19 DNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

3. HTLV SEROLOGY

NRL Science of Quality | Science architect

Qualitative | Liquid, human plasma

ORDER CODE	FORMAT	COMPATIBILITY
HTLV4310	**3** test events x **10** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.

Anti-HTLV

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

BLOOD SCREENING EQA

4. MULTIMARKER BLOOD SCREENING SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid human plasma**

UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
MMBS4320	**3** test events x **20** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.

Anti-HBc Total	Anti-HIV	HIV Ag
Anti-HCV	HCV Ag	HBsAg

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

5. MULTIMARKER BLOOD SCREENING NAT

NRL Science of Quality | Science architect

Qualitative | **Frozen human plasma**

UN 3373 UN 1845

ORDER CODE	FORMAT	COMPATIBILITY
NATA4315	**3** test events x **15** samples x **4.4** mL **1** shipment	Compatible with blood screening NAT assays. No known compatibility issues with any method or analyzer.

HBV DNA	HCV RNA	HIV RNA

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

6. TOXOPLASMA, RUBELLA AND CMV SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid, human plasma**

UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
TORC435	**3** test events x **5** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.

Anti-CMV IgG	Anti-Toxoplasma IgG	Anti-Rubella IgG
Anti-CMV IgM	Anti-Toxoplasma IgM	Anti-Rubella IgM

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

BLOOD SCREENING EQA

7. SYPHILIS SEROLOGY

NRL Science of Quality | Science architect

Qualitative | **Liquid, human plasma**

UN 3373

ORDER CODE	FORMAT	COMPATIBILITY
TREP4310	**3** test events x **10** samples x **1** mL **3** shipments	Participants can report multiple runs and replicates for multiple analyzers or methods.

Anti-*Treponema pallidum* Non-Treponemal antibodies

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

ANDROLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 8	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

ANDROLOGY EQA

1. ANTI-SPERM ANTIBODY

Qualitative | **Serum**

ORDER CODE	FORMAT	COMPATIBILITY
SPAB432	**3** test events x **2** samples x **0.5** mL **3** shipments	No known compatibility issues with any method or analyzer.

Anti - sperm antibody

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. SPERM COUNT

Quantitative | **Stabilized sperm**

ORDER CODE	FORMAT	COMPATIBILITY
SPER432	**3** test events x **2** samples x **0.15** mL **3** shipments	No known compatibility issues with any method or analyzer.

Sperm count

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

3. SPERM SCREEN

Qualitative | **Stabilized sperm**

ORDER CODE	FORMAT	COMPATIBILITY
SPES432	**3** test events x **2** samples x **0.15** mL **3** shipments	No known compatibility issues with any method or analyzer.

Sperm screen

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

ANDROLOGY EQA

4. SPERM MORPHOLOGY

Quantitative | **Unstained glass slide and printed image**

ORDER CODE	FORMAT	COMPATIBILITY
SPMO432	**3** test events x **2** samples **3** shipments	No known compatibility issues with any method or analyzer.

Sperm morphology

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

5. SPERM VIABILITY

Quantitative | **Eosin/Nigrosin stained glass slides**

ORDER CODE	FORMAT	COMPATIBILITY
SPVB432	**3** test events x **2** samples **3** shipments	No known compatibility issues with any method or analyzer.

Sperm viability

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

BACTERIOLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

BACTERIOLOGY EQA

Select the programs that correspond to your extent of testing

EXTENT 1	EXTENT 2	EXTENT 3	EXTENT 4	EXTENT 5
Interpret gram stains and perform primary isolation	+ Perform direct antigen testing.	+ Isolate and identify aerobic bacteria from throat, urine, cervical or urethral discharge samples and may do sensitivities on selected organisms.	+ Isolate and identify aerobic bacteria from any source to the species level.	+ Isolate and identify anaerobic bacteria from any source.

1. AFFIRM VP TEST

Qualitative | **Swabs** — UN 3373

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
AFVP435	**3** test events x **5** samples **3** shipments	**1 2**	Antigen detection by Affirm VP ***only***.

Candida *Gardnerella* *Trichomonas*

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

2. BACTERIAL IDENTIFICATION

Qualitative | **Inoculated loop (stool, urine, spinal fluid, sputum, wound, blood, ear, eye)** — UN 3373

ORDER CODE	FORMAT	EXTENT
BACT435	**3** test events x **5** samples **3** shipments	**4 5**

Gram stain (one sample)
Identification of aerobic bacteria
Identification of aerobic and / or anaerobic bacteria or *Campylobacter* (extent 5 ***only***)
Susceptibility testing (one sample)

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

BACTERIOLOGY EQA

3. CLOSTRIDIUM DIFFICILE ANTIGEN

Qualitative | **Liquid** — UN 3373

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
CLDA435	**3** test events x **5** samples x **1** mL **3** shipments	**1 2**	No known compatibility issues with any method or analyzer
CLDA432	**3** test events x **2** samples x **1** mL **3** shipments		

Clostridium difficile Ag — *Clostridium difficile* Toxin A/B

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | V4

4. GENITAL ANTIGENS

Qualitative | **Liquid** — UN 3373

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
GENA435	**3** test events x **5** samples x **1** mL **3** shipments	**1 2**	No known compatibility issues with any method or analyzer.

Chlamydia trachomatis — *Neisseria gonorrhoeae*

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | V4

5. GENITAL CULTURE

Qualitative | **Inoculated loop** — UN 3373

ORDER CODE	FORMAT	EXTENT
GENC435	**3** test events x **5** samples **3** samples	**3 4 5**
GENC432	**3** test events x **2** samples **3** samples	

Identification of normal flora and pathogens

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | V4

BACTERIOLOGY EQA

6. GENITAL ANTIGENS - NUCLEIC ACID

Qualitative | Swabs

UN 3373

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
GEND435	**3** test events x **5** samples **3** shipments	**1 2**	Nucleic acid probe or nucleic acid amplification.

Chlamydia trachomatis *Neisseria gonorrhoeae*

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

7. GRAM STAIN

cmpt Science architect

Qualitative | Fixed glass slides

ORDER CODE	FORMAT	EXTENT
GRAM435	**3** test events x **5** samples **3** shipments	**1**

Gram stain

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

8. METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS

Qualitative | Inoculated loop

UN 3373

ORDER CODE	FORMAT	EXTENT
MRSA435	**3** test events x **5** samples **3** shipments	**1 2 3 4 5**

MRSA

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

BACTERIOLOGY EQA

9. NEISSERIA GONORRHOEAE CULTURE

Qualitative | **Inoculated loop**

UN 3373

ORDER CODE	FORMAT	EXTENT
NGOS435	**3** test events x **5** samples **3** shipments	**1 2 3 4 5**
NGOS432	**3** test events x **2** samples **3** shipments	

Neisseria gonorrhoeae

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

10. STREPTOCOCCUS A ANTIGEN

Qualitative | **Swabs**

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
STAA435	**3** test events x **5** samples **3** shipments	**1 2**	No known compatibility issues with any method or analyzer.
STAA432	**3** test events x **2** samples **3** shipments		

Streptococcus A

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

BACTERIOLOGY EQA

11. STREPTOCOCCUS A CULTURE

Qualitative | Inoculated loop

UN 3373

ORDER CODE	FORMAT	EXTENT
STAS435	**3** test events x **5** samples **3** shipments	**1 2 3 4 5**

Streptococcus A

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

12. THROAT CULTURE

Qualitative | Inoculated loop

UN 3373

ORDER CODE	FORMAT	EXTENT
THRC435	**3** test events x **5** samples **3** shipments	**1 2 3 4 5**
THRC433	**3** test events x **3** samples **3** shipments	

Identification of pathogens

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

13. URINE COLONY COUNT

Semi-quantitative | Quanti-cult samples

UN 3373

ORDER CODE	FORMAT	EXTENT
URCC432	**3** test events x **2** samples x **100** mL **3** shipments	**1 2 3 4 5**

Urine colony count for screening purposes

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

BACTERIOLOGY EQA

14. URINE CULTURE

Qualitative | Inoculated loop

UN 3373

ORDER CODE	FORMAT	EXTENT
URIC435	**3** test events x **5** samples **3** shipments	**4 5**
URIC432	**3** test events x **2** samples **3** shipments	

Gram stain (one sample) | Identification of normal flora and pathogens | Susceptibility testing (one sample)

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

15. VANCOMYCIN RESISTANT ENTEROCOCCUS

Qualitative | Inoculated loop

UN 3373

ORDER CODE	FORMAT	EXTENT
VREN435	**3** test events x **5** samples **3** shipments	**1 2 3 4 5**

VRE

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

MYCOBACTERIOLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full

Report-only

Sample-only

Off-cycle

Validation

MYCOBACTERIOLOGY EQA

Select the programs that correspond to your extent of testing

EXTENT 1	EXTENT 2	EXTENT 3
Interpret acid fast stains	+ Perform identification and may do susceptibility testing of Mycobacterium tuberculosis.	+ Perform identification of all Mycobacterium for clinical diagnosis and may do susceptibility testing.

1. ANTIMYCOBACTERIAL SUSCEPTIBILITY

Qualitative | **Inoculated loop**

UN 2814

ORDER CODE	FORMAT	EXTENT
AMBS431	**3** test events x **1** sample **3** shipments	2 3

Susceptibility of *Mycobacterium tuberculosis* using drugs routinely tested in your laboratory

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

2. MYCOBACTERIUM ACID FAST STAIN

cmpt | Science architect

Qualitative | **Fixed glass slides**

ORDER CODE	FORMAT	EXTENT
MAFS435	**3** test events x **5** samples **3** shipments	1

Mycobacterium acid fast stain

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

MYCOBACTERIOLOGY EQA

3. MYCOBACTERIUM SPECIES CULTURE

Qualitative | **Inoculated loop or liquid**

UN 2814

ORDER CODE	FORMAT	EXTENT
MSPC435	**3** test events x **5** samples **3** shipments	**3**

Identification of *Mycobacterium* species
Susceptibility testing (one sample)

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

4. MYCOBACTERIUM TUBERCULOSIS CULTURE

Qualitative | **Inoculated loop or Liquid suspension**

UN 2814

ORDER CODE	FORMAT	EXTENT
MTUC435	**3** test events x **5** samples **3** shipments	**2 3**

Identification of *Mycobacterium tuberculosis*

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

MYCOLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

MYCOLOGY EQA

Select the programs that correspond to your extent of testing

EXTENT 1	EXTENT 2	EXTENT 3	EXTENT 4
Isolate and identify yeast and/or dermatophytes to the genus level and perform direct antigen testing.	+ Isolate and identify yeast and/or dermatophytes to the species level.	+ Isolate and identify all fungi to the genus level.	+ Isolate and identify all fungi to the species level.

1. CANDIDA ANTIGEN

Qualitative | Liquid

UN 3373

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
CANA435	**3** test events x **5** samples x **1** mL **3** shipments	**1 2**	Enzyme immunoassay.

Candida

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

2. CRYPTOCOCCUS ANTIGEN

Qualitative | Liquid

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
CRYA432	**3** test events x **2** samples x **1** mL **3** shipments	**1 2**	Agglutination or enzyme immunoassay.

Cryptococcus neoformans

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | VA

MYCOLOGY EQA

3. DERMATOPHYTE SCREEN

Qualitative | **Inoculated loop**

UN 3373

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
DERS435	**3** test events x **5** samples **3** shipments	**1**	Dermatophyte test media.

Dermatophyte detection

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

4. KOH SLIDES

cmpt | Science architect

Qualitative | **Glass slides**

ORDER CODE	FORMAT	EXTENT
KOHS432	**3** test events x **2** samples **3** shipments	**1**

Fungal identification

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

5. MOLD / YEAST CULTURE

Qualitative | **Inoculated loop**

UN 3373

ORDER CODE	FORMAT	EXTENT
MOLC435	**3** test events x **5** samples **3** shipments	**3 4**

Mold/yeast identification

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

MYCOLOGY EQA

6. YEAST CULTURE

Qualitative | **Inoculated loop**

UN 3373

ORDER CODE	FORMAT	EXTENT
YEAC435	**3** test events x **5** samples **3** shipments	**1 2**

Yeast identification

SUBSCRIPTION OPTIONS

Full | +RO | +SO | OC | VA

PARASITOLOGY EQA

2015 Test Event Calendar

The following Test Event Calendar applies for all Programs in this section.

Test Event	Test Event Open	Test Event Window	Results Deadline
1	Wednesday, March 25	21 days	Wednesday, April 15
2	Wednesday, July 08	21 days	Wednesday, July 29
3	Wednesday, October 21	21 days	Wednesday, November 11

Subscription Options

The following Subscription options are available for Programs in this section.

Full	+RO	+SO	OC	VA
Full	Report-only	Sample-only	Off-cycle	Validation

PARASITOLOGY EQA

Select the programs that correspond to your extent of testing

EXTENT 1	EXTENT 2
Detect parasites by wet mounts / pinworm preparations and perform direct antigen testing.	+ Use concentration methods and permanent stains for identification.

1. BLOOD PARASITES

Qualitative | **Thin and thick blood smears**

ORDER CODE	FORMAT	EXTENT
BLPA435	**3** test events x **5** samples **3** shipments	**2**
BLPA432	**3** test events x **2** samples **3** shipments	**2**

Blood parasite detection and identification

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

2. MALARIA

Qualitative | **Thin and thick blood smears**

ORDER CODE	FORMAT	EXTENT
MALA435	**3** test events x **5** samples **3** shipments	**2**

Blood smear - malaria detection and identification

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

PARASITOLOGY EQA

3. PARASITE ANTIGENS

Qualitative | **Formalin preserved fecal suspension**

ORDER CODE	FORMAT	EXTENT	COMPATIBILITY
PARA435	**3** test events x **5** samples x **1** mL **3** shipments	**1 2**	Enzyme immunoassay. **Not compatible** with Biosite Parasitology test kit.
PARA432	**3** test events x **2** samples x **1** mL **3** shipments		

Giardia lamblia and / or *Cryptosporidium*

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

4. PVA SMEAR

Qualitative | **Mercury fixed PVA slides**

ORDER CODE	FORMAT	EXTENT
PVAS435	**3** test events x **5** samples **3** shipments	**2**
PVAS432	**3** test events x **2** samples **3** shipments	

PVA slides - parasite detection and identification

SUBSCRIPTION OPTIONS

Full | +RO **+5 RO FREE** | +SO | OC | ~~VA~~

PARASITOLOGY EQA

5. WET MOUNT

Qualitative | **Formalin preserved fecal suspension**

ORDER CODE	FORMAT	EXTENT
WMNT435	**3** test events x **5** samples **3** shipments	**1**
WMNT432	**3** test events x **2** samples **3** shipments	

Wet mount - parasite detection and identification

SUBSCRIPTION OPTIONS

Full | +RO +5 RO FREE | +SO | OC | VA

2015 CALENDAR

	TE 1 | Jan 21 - Feb 11
Test Event 1 | **Opening Date:** Mar 25 - **Results Deadline:** Apr 15	**TE 2** | Mar 25 - Apr 15
	TE 3 | May 27- Jun 17
Test Event 2 | **Opening Date:** Jul 08 - **Results Deadline:** Jul 29	**TE 4** | Jul 08 - Jul 29
	TE 5 | Aug 26 - Sep 16
Test Event 3 | **Opening Date:** Oct 21 - **Results Deadline:** Nov 11	**TE 6** | Oct 21 - Nov 11

Andrology

SPAB432 SPER432 SPES432 SPMO432 SPVB432

Bacteriology

AFVP435 CLDA432 GENA435 GENC435 GRAM435 NGOS432 STAA432 STAS435 THRC435 URIC432 VREN435
BACT435 CLDA435 GENC432 GEND435 MRSA435 NGOS435 STAA435 THRC433 URCC432 URIC435

Chemistry

ALCH435 BGAS432 CCHM435 ENDO435 GLHB432 IBGH435 SHCG435 SUPR432 TRSE432 UHCG435 WGLU432
AMMN432 BGAS435 COHB432 FFIB432 GOBD432 KETN432 SPCH432 SWEA433 TRUR432 URCH432 WGLU435
BCAM432 CARM432 COHB435 FLCH433 HCRT432 NITZ431 SPIM432 TOXI432 TUMK432 URIN432 WHGN432
BCAM435 CARM435 CSFT432 FOBD432 HCRT435 ROFM431 SPRO435 TOXI435 UDOA432 URMA432 WHGN435
BCHE435 CCHM432 ENDO432 FRUC432 IBGH432 SHCG432 SPUC432 TRBD432 UHCG432 USED432

Clinical Microscopy

FECS431 FERN431 KOHP431 NASM431 PINW431 VAGP431

Clinical Serology

AVIR435 HEPM435 HIVA435 HIVN432 HSVC432 LYME432 MONO435 TREP435
EBVS432 HEPM4310 HIVC435 HIVN435 HTLV435 MMBS4320 MYPL432 TREP4310
EBVS435 HIVA432 HIVC4310 HPYL432 HTLV4310 MONO432 TORC435

Coagulation

COAG432 COAG435 DDIM432 ORAC432 PLPX431 THBP432

Diagnostic Immunology

AIAP432 AICN432 AIOR432 AITH433 ANAB435 ANSO435 FOOD433 RHFA435
AIAR432 AICO432 AIRH432 ALLY433 ANAL435 CRPR432 HCRP432

Hematology

BFLD432 ESRA433 HEFA435 HEFE435 HEFH435 HEMA435 QASI432 RETC432
CELL435 FLPG432 HEFB435 HEFF435 HEFI435 HETA435 RETA432 SCSC432
ERSR432 FRBC432 HEFD435 HEFG435 HEMA432 HETB435 RETB432

Mycobacteriology

AMBS431 MAFS435 MSPC435 MTUC435

Mycology

CANA435 CRYA432 DERS435 KOHS432 MOLC435 YEAC435

Parasitology

BLPA432 BLPA435 MALA435 PARA432 PARA435 PVAS432 PVAS435 WMNT432 WMNT435

Transfusion Medicine

BTME435 CTME435 DATG432

Coagulation 6 TE

COAG465

Hematology 6 TE

HEFA465
HEFB465
HEFD465
HEFE465
HEFF465
HEFG465
HEFH465
HEFI465
HEMA465
HETA465
HETB465

2015 CALENDAR

						TE 1 | Jan 21 - Jan 28
						TE 2 | Feb 18 - Feb 25
TE 1 | Feb 25 - Mar 18	TE 1 | Feb 25 - Mar 18	TE 1 | Mar 04 - Mar 11	TE 1 | Mar 04 - Mar 11	TE 1 | Mar 04 - Mar 11	TE 1 | Mar 18 - Mar 25	TE 3 | Mar 18 - Mar 25
				TE 2 | May 06 - May 13		TE 4 | Apr 22 - Apr 29
	TE 2 | Jun 03 - Jun 24	TE 2 | Jun 10 - Jun 17		TE 3 | Jun 10 - Jun 17	TE 2 | May 20 - May 27	TE 5 | May 13 - May 20
					TE 3 | Jun 24 - Jul 01	TE 6 | Jun 17 - Jun 24
				TE 4 | Aug 26 - Sep 02	TE 4 | Sep 09 - Sep 16	TE 7 | Jul 15 - Jul 22
TE 2 | Sep 09 - Sep 30	TE 3 | Sep 09 - Sep 30	TE 3 | Sep 30 - Oct 07	TE 2 | Sep 30 - Oct 07	TE 5 | Sep 30 - Oct 07		TE 8 | Aug 19 - Aug 26
					TE 5 | Oct 14 - Oct 21	TE 9 | Sep 23 - Sep 30
				TE 6 | Nov 18 - Nov 25		TE 10 | Oct 21 - Oct 28
						TE 11 | Nov 18 - Nov 25
					TE 6 | Dec 02 - Dec 09	TE 12 | Dec 02 - Dec 09
Clinical NAT HIVG425 HIVT425	**Clinical NAT** CMVN435 CTNG435 HAPN435 HBVL435 HCVG435 HCVL435 HCVN435 HIVL435 HSVN435 NATA4315	**MI Chemistry** BNPS432 CAMS433 CHEM433 NBNP432 NEOB435 THDM433 URCR432 URCR435 **Standardization** GFRM733 GFRR733 GHBB713 GHGB733 LIPD733 LIVM733 TPRM733	**Standardization** CHOL726	**MI Chemistry 6 TE** CAMS463 CHEM463 THDM463 **Standardization** GFRB716 LIPB713 LIPD763	**Standardization** GFRC715	**Chemistry** FOBT4123 **Standardization** GFRM7123

2015 CALENDAR

	TE 1 | Jan 07 - Jan 14	
	TE 2 | Feb 04 - Feb 11	
	TE 3 | Mar 04 - Mar 11	
TE 1 | Mar 25 - Apr 15	**TE 4** | Apr 08 - Apr 15	
	TE 5 | May 06 - May 13	
	TE 6 | Jun 03 - Jun 10	
TE 2 | Jul 08 - Jul 29	**TE 7** | Jul 08 - Jul 15	
	TE 8 | Aug 05 - Aug 12	
TE 3 | Oct 21 - Nov 11	**TE 9** | Sep 02 - Sep 09	
	TE 10 | Oct 07 - Oct 14	
TE 4 | Nov 25 - Dec 16	**TE 11** | Nov 04 - Nov 11	
	TE 12 | Dec 02 - Dec 09	
Chemistry 4 TE BCHE443 CCHM443 ENDO443 SPRO442 TOXI443 TUMK443 UDOA443 **Coagulation 4 TE** COAG443 DDIM442 THBP442 **Transfusion Medicine 4 TE** IMHE442 **Diagnostic Immunology 4 TE** ALLY443 FOOD443	**Chemistry 12 TE** BCHE4121 BGAS4121 CARM4121 SPRO4121 TUMK4121 UDOA4121 URIN4121 **Coagulation 12 TE** COAG4121 **Hematology 12 TE** HEMA4121	

To achieve universal testing accuracy for improved healthcare for all people.

Your ideas, commitment and energy will advance this mission. Accordingly, if you have any suggestions for new programs or system features, or if you know of any groups that might be interested in becoming Collaboration Members or Science Architects, please let us know at secretariat@oneworldaccuracy.org.

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