



**CLINICAL
DIAGNOSTICS**

Product Catalogue

Independent Quality Controls and
QC Software Solutions



SUSTAINABILITY

ACCREDITATION

AUTOMATION



TECHNOPATH
CLINICAL DIAGNOSTICS

Navigating this Catalogue

This interactive document is designed to provide quick and easy access to all product information, both in this catalogue and on our website, www.technopathcd.com.

Hyperlinks are provided throughout and are highlighted in bold text.

Other navigation tools include:



The Home icon on each section contents page links back to the main contents page.



The Menu icon on the side of each product page links back to contents page for that section.



The visit website icon links to the corresponding product web page.



Then LGC Clinical Diagnostics logo at the top of each page provides a quick link to www.lgcclinicaldiagnostics.com.

Ordering Products

Multichem Independent QC for all major platforms

To order Technopath's Multichem® QC products and IAMQC® software solutions please contact:
technopath.info@lgcgroup.com.

Independent QC for Abbott Alinity and Architect systems

For independent QC and IAMQC software solutions for Alinity and Architect systems, please contact your local Abbott representative.

Independent QC for Roche cobas® systems

For independent QC and IAMQC software solutions for Roche **cobas®**, please contact your local Roche representative.



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Introduction



"Technopath Clinical Diagnostics mission is to provide clinical diagnostics solutions which positively impact the quality of people's lives by improving healthcare."

Technopath Clinical Diagnostics is now part of LGC Clinical Diagnostics.

LGC Diagnostics is a leading in vitro diagnostic (IVD) manufacturer of clinical diagnostic quality solutions and test components to the extended life science industry. We partner with In Vitro Diagnostics (IVD) Instrument Manufacturers, Healthcare System Labs, Reference Labs, clinical research organizations (CROs) and academic institutions in commercialization activities across the entire diagnostic pipeline - from concept and early-stage research, through expedited product development and onwards into routine clinical use. Laboratories and diagnostic professionals across disciplines of clinical chemistry, immunochemistry, serology, molecular diagnostics, and clinical genomics rely on LGC's products to achieve accurate and reliable diagnostic results.

Our combined and ever-growing capabilities mean we are better positioned to support the needs of the clinical diagnostics industry, from early feasibility and research to commercial & laboratory development test (LDT) assay development, installation, validation and ongoing performance monitoring support. LGC Clinical Diagnostics Quality Management and reagent component manufacturing facilities are FDA-registered, and ISO 13485 and ISO 9001 certified.

Our brands include five IVD manufacturers of QMTs and one manufacturer of viral and bacterial antigens and antibodies:



Technopath Clinical Diagnostics - Independent Quality Controls & QC Software Solutions

SeraCare Quality Controls - Reference Materials, Biological Materials, reagent components

Biochemical Diagnostics - Drugs of Abuse Quality Control

Kova International - Urinalysis Quality Control

Maine Standards Company - Calibration verification materials, validation & qualification panels, calibrators, and OEM PT/EQA samples

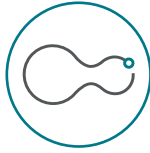
The Native Antigen Company - Viral and bacterial antigens/antibodies

Together, our brands serve over 7,500 customers in over 120 countries, providing products for more than 20 clinical application areas, including infectious diseases, NIPT, diabetes, cardiac disease and oncology. We are passionately committed to go beyond. In collaboration with our customers, our people and with absolute quality, we make the exploration of science our mission to create a safer world.



Enhance Laboratory Efficiencies

with Multichem® Independent Quality Controls and
IAMQC® QC data management software



CONSOLIDATION

Fewer products required to meet your core laboratory control needs, leading to increased operational efficiencies, and reduced waste.



AUTOMATION

Load and go barcoded controls for greater throughput, reduced manual errors and automated QC data reporting.



QUALITY

Independent, 3rd party, human-based controls with analytes targeted at clinical decision points supporting clinician quality goals.

Internal Laboratory Quality Control (IQC) is important in ensuring confidence in patient test results and in meeting accreditation requirements including CLIA, CLSI, CAP, RiliBÄK and ISO.

Increasingly Laboratories seek objective assessment and comparison of analytical methods and instrumentation performance, to meet their quality goals.

Technopath's Independent quality control solution, Multichem QC and IAMQC software, provides clinical laboratories with significant cost, handling and time savings, whilst delivering higher confidence in analytical testing methods.

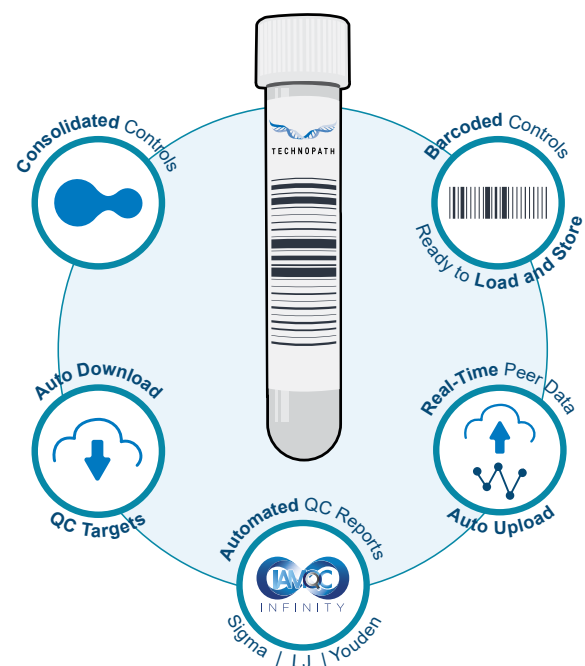
Advancing Quality Control in the Clinical Laboratory

By utilising Multichem barcoded QC materials*, laboratories can optimise their QC workflow and minimise handling errors. It is supported and complemented with IAMQC® data management system.

Learn more here:

<https://www.technopathclinicaldiagnostics.com/why-technopath/>

*Platform dependent



QC Data Management Software



IAMQC Infinity Daily QC software, and Interlaboratory Peer software, support laboratory IQC while achieving greater efficiency and reducing costs. Early identification of trends enable corrections before results are compromised. IAMQC Infinity helps facilitate compliance under CLIA, ISO 15189 and RiliBÄK. Featuring real-time supervisor QC data review, validation with comprehensive audit trails, and comprehensive QC charts and reports for laboratory data analysis.



ISO, CAP, CLIA, RiliBÄK guidelines for laboratory testing support confidence in patient results.



QC data automatically collected and processed in a secure workflow.



Realtime QC data review, peer analysis, automated compliance reports and expert support & service.

Technical Support Services

Our technical support team comprises of experienced Laboratory Technologists, who are available to offer support for Multichem QC products and IAMQC informatics.

For support please contact:

technopath.qcsupport@LGCGroup.com for Multichem quality control products.

technopath.iamqcsupport@LGCGroup.com, for IAMQC data management solutions.



Quality Matters

Every day we are committed to delivering high quality, safe and effective clinical diagnostic products to achieve maximum customer satisfaction; by complying with the appropriate regulatory requirements supported by our Quality Management System.

Technopath Clinical Diagnostics is certified and has successfully achieved international regulatory market approvals for example:

- IVD Regulation (EU) 2017/746
- IVD 98/79/EC (CE Marked)
- HPRA (Health Products Regulatory Authority)
- MHRA
- US FDA (previously 510k approved)
- Health Canada
- China NMPA
- Brazil ANVISA
- Australia TGA

Multichem is manufactured to the highest quality standards in our ISO 13485 accredited facility. Our proprietary manufacturing processes allow incorporation of greater numbers of analytes in to a single matrix, which enables extensive test menu consolidation.



Our products are manufactured using fresh frozen plasma and urine. Having direct access to high quality fresh frozen plasma ensures that our products mimic the performance of patient samples as closely as possible, giving increased commutability. We maintain particular expertise in the stabilisation of labile analytes (i.e Troponin, Bilirubin, etc.) and we also use Human matrix based lipid additions to ensure commutability across testing systems.

The combination of these high quality raw materials and our proprietary process gives Technopath a significant competitive advantage over key global competitors.



Multichem® Independent Quality Controls

Suitable for use on all major platforms.

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Analyte Guide* - Multichem® independent QC for use on all major platforms

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem S	Multichem IA Plus	Multichem IA	Multichem P	Multichem U	Multichem IA Speciality	Multichem NB	Multichem CSF	Multichem ALC	Multichem AMH	Multichem D-Dimer	Multichem AE	Multichem hsTn	Multichem WBT
17 Hydroxyprogesterone			○	○											
A															
Acetaminophen	●	●	●	●											
Acid Phosphatase	●	●													
ACTH			●	●			●								
ADNase B	○	○			○										
Alanine Aminotransferase (ALT)	●	●													
Albumin	●	●			○										
Aldosterone			○	○											
Alkaline Phosphatase	●	●													
Alpha Fetoprotein (AFP)			●	●											
Alpha-hydroxybutyrate Dehydrogenase (α-HBDH)	○	○													
Alpha-1-acid Glycoprotein	●	●			●										
Alpha-1-Antitrypsin (A1AT)	●	●			●										
Alpha 2-macroglobulin	○	○			○										
Amikacin	●	●	●	●											
Ammonia													●		
Amylase, Pancreatic	●	●													
Amylase, Total	●	●				●									
Androstenedione			○	○											
Angiotensin Converting Enzyme	○	○	○	○	○										
Antistreptolysin O	○	○			○										
Anti-Thyroglobulin			●	●											
Anti-Mullerian Hormone											●				
Antithrombin III	○	○			○										
Anti-TPO			●	●											
Apolipoprotein A1 (APO A1)	●	●			●										
Apolipoprotein B (APO B)	●	●			●										
Aspartate Aminotransferase (AST)	●	●													
B															
Beta-hydroxybutyrate Dehydrogenase	○	○													
Beta-2-Microglobulin	●	●			●										
Beta-HCG			●	●		●									
Bile Acids	●	●													
Bilirubin, Direct	●	●						●							
Bilirubin, Indirect	○	○													
Bilirubin, Total	●	●						●							
BNP			●	●			●								
C															
C1 Inhibitor	○	○			○										
C3	●	●			●										
C4	●	●			●										
CA 125			●												
CA 15-3			●												
CA 19-9			●												
Caffeine	○	○	○	○				○							
Calcitonin			●	●			●								
Calcium	●	●				●									
Calcium, Ionized	○	○													
Carbamazepine, Free			○	○											
Carbamazepine, Total	●	●	●	●											
Carbon Dioxide (CO2)	●	●													
CEA			●	●											
Ceruloplasmin	●	●			●										
CH50 (Total hemolytic Complement)	○	○			○										
Chloramphenicol			○	○											
Chloride	●	●				●									
Cholesterol, HDL	●	●													
Cholesterol, LDL	●	●													
Cholesterol, Total	●	●													
Cholinesterase (CHE)	●	●													
Creatine Kinase (CK)	●	●													
CK-MB	○	○	●	●											
Copper	○	○													
Cortisol	●	●	●	●		●									
C-Peptide			●	●											
C-Reactive Protein	●				●										
Creatinine	●	●				●									
CRP, Ultra-sensitive			○	○											
Cyclosporine			○	○											●
Cystatin C	○	○			○										
D															
D-Dimer												●			
DHEA Sulfate			●	●											

*Please refer to lot specific package inserts for stability and performance claims.

Analyte Guide* - Multichem® independent QC for use on all major platforms

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem S	Multichem IA Plus	Multichem IA	Multichem P	Multichem U	Multichem IA Speciality	Multichem NB	Multichem CSF	Multichem A1c	Multichem AMH	Multichem D-Dimer	Multichem AE	Multichem hsTn	Multichem WBT
Digoxin	●	●	●	●											
Disopyramide			○	○											
E															
EPO			●	●											
Estradiol			●	●											
Estriol, Total			○	○											
Estriol, Free			●	●											
Estrogen, Total			○	○											
Ethanol	●	●											●		
Ethosuximide			○	○											
F															
Ferritin	○	○	●	●	○										
Folate			●	●											○
Fructosamine	○	○													
FSH			●	●											
G															
Gamma Glutamyltransferase (GGT)	●	●													
Gentamicin	●	●	●	●											
Glucose	●	●				●			●						○
H															
Haptoglobin	●	●			●										
Hemopexin	○	○			○										
HbA1c										●					
Homocysteine			●	●											
Human Growth Hormone			●	●											
I															
Ibuprofen			○	○											
IgA	●	●			●										
IgE	○	○	●	●	○										
IGF-1			○	○											
IgG	●	●			●				●						
IgG1 Subclass	○	○			○										
IgG2 Subclass	○	○			○										
IgG3 Subclass	○	○			○										
IgG4 Subclass	○	○			○										
IgM	●	●			●										
Insulin			●	●											
Iron	●	●													
K															
Kappa Light Chain	○	○			○										
L															
Lactate (Lactic Acid)	●	●							●						
Lactate Dehydrogenase (LDH)	●	●													
Lambda Light Chain	○	○			○										
LH			●	●											
Lidocaine			○	○											
Lipase	●	●													
Lipoprotein (a)	○	○			○										
Lithium	●	●	●	●											
M															
Magnesium	●	●				●									
Microalbumin						●									
Myoglobin			●	●											
N															
N-Acetyl-Procaainamide (NAPA)			○	○											
NT-proBNP	○	○	●	●											
O															
Osmolality	○	○				●									
Ostase			○	○											
P															
Phenobarbital	●	●	●	●											
Phenytoin, Free			○	○											
Phenytoin, Total	●	●	●	●											
Phospholipids	○	○													
Phosphorous	●	●				●									
Potassium	●	●				●									
Prealbumin	●	●			●										
Primidone			○	○											
Procainamide			○	○											
Procalcitonin							●								
Procollagen type 1 (P1NP)			○	○											
Progesterone			●	●											
Prolactin			●	●											
Properdin Factor B	○	○			○										

*Please refer to lot specific package inserts for stability and performance claims.

Analyte Guide* - Multichem® independent QC for use on all major platforms

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem S	Multichem IA Plus	Multichem IA	Multichem P	Multichem U	Multichem IA Speciality	Multichem NB	Multichem CSF	Multichem AlC	Multichem AMH	Multichem D-Dimer	Multichem AE	Multichem hsTn	Multichem WBT
Prostatic Acid Phosphatase	○	○													
Protein Electrophoresis	○	○													
Protein, Total	●	●			○				●						
PSA, Free			●	●											
PSA, Total			●	●											
PTH, Intact			●	●			●								
Q															
Quinidine			○	○											
R															
Renin			○	○											
Retinol Binding Protein	○	○			○										
Rheumatoid Factor (RF)	●				●										
S															
Salicylate	●	●	●	●											
SHBG			●	●											
Sirolimus															●
Sodium	●	●				●									
Soluble Transferrin Receptor (sTfR)	○	○			○										
Specific Gravity						○									
T															
T3, Free			●	●											
T3, Total	○	○	●	●											
T4, Free			●	●											
T4, Total	●	●	●	●											
Tacrolimus															●
TBG			○	○											
Testosterone, Total			●	●											
Testosterone, Free			○	○											
Theophylline	●	●	●	●				●							
Thyroglobulin			●	●											
Tobramycin	●	●	●	●											
Total Iron Binding Capacity (TIBC)	○	○													
Transferrin	●	●			●										
Triglycerides	●	●													
Troponin I			●	●										●	
Troponin T	○	○	●	●										●	
TSH			●	●											
T-Uptake			●	●											
U															
UIBC	●	●													
Urea Nitrogen	●	●				●									
Uric Acid	●	●				●									
Urinary Protein (Urine Total Protein)						●									
V															
Valproic Acid, Total	●	●	●	●											
Valproic Acid, Free			○	○											
Vancomycin	●	●	●	●											
Vitamin B12			●	●											
Vitamin D			●	●											
Z															
Zinc	○	○													

Analyte Guide - Multichem® ID Independent Serology QC

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem ID-B	Multichem ID-SeroNeg	Multichem ID-COVID19 G	Multichem ID-COVID19 Neg
A				
Antibodies to SARS-CoV-2			●	●
Anti-HBc IgG	●	●		
Anti-HCV IgG	●	●		
Anti-HIV 1	●	●		
Anti-HTLV I IgG	●	●		
Anti-Treponema Pallidum IgG	●	●		
H				
HBsAg	●	●		
HIV 1 p24 Antigen		●		

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Chemistry Quality Controls

The Multichem Chemistry product range incorporates serum chemistry, immunology, lipid, TDM, enzymes and esoterics. It includes liquid-only unassayed and assayed products based on human matrix formulations.

Our human-based matrix facilitates unrivalled test consolidation and offers increased stability. Together, these control characteristics offer greater quality control efficiencies without compromising compliance or confidence in patient results.

Multichem Chemistry Quality Controls - Suitable for use on all major platforms			
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem S Plus	Assayed Single Level (Level 1)	15 x 10mL	CH101PLA
	Assayed Single Level (Level 2)	15 x 10mL	CH102PLA
	Assayed Single Level (Level 3)	15 x 10mL	CH103PLA
	Unassayed Single Level (Level 1)	15 x 10mL	CH101CRP
	Unassayed Single Level (Level 2)	15 x 10mL	CH102CRP
	Unassayed Single Level (Level 3)	15 x 10mL	CH103CRP
	Mini Kit (Unassayed Tri-level)	3 x 1 x 10mL	CH100MCRP
Multichem S	Assayed Single Level (Level 1)	15 x 10mL	CH101A
	Assayed Single Level (Level 2)	15 x 10mL	CH102A
	Assayed Single Level (Level 3)	15 x 10mL	CH103A
	Unassayed Single Level (Level 1)	15 x 10mL	CH101X
	Unassayed Single Level (Level 2)	15 x 10mL	CH102X
	Unassayed Single Level (Level 3)	15 x 10mL	CH103X
Multichem AE	Assayed Single Level (Level 1)	12 x 2mL	AE611A
	Assayed Single Level (Level 2)	12 x 2mL	AE612A
	Assayed Single Level (Level 3)	12 x 2mL	AE613A
	Unassayed Single Level (Level 1)	12 x 2mL	AE611X
	Unassayed Single Level (Level 2)	12 x 2mL	AE612X
	Unassayed Single Level (Level 3)	12 x 2mL	AE613X
	Assayed Bi-Level	2 x 6 x 2mL	AE600A
	Unassayed Bi-Level	2 x 6 x 2mL	AE600X
	Assayed Tri-Level	3 x 4 x 2mL	AE610A
	Unassayed Tri-Level	3 x 4 x 2mL	AE610X
Multichem CSF	Assayed Bi-Level	2 x 6 x 2mL	CF100A
	Unassayed Bi-Level	2 x 6 x 2mL	CF100X
Multichem NB	Assayed Single Level	12 x 2mL	NB800A
	Unassayed Single Level	12 x 2mL	NB800X

Multichem® S Plus



Replace up to four competitor chemistry QC products with Multichem S Plus

Corresponding Competitor Products



Multichem
S Plus



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C.

Instruments

Multichem S Plus, independent clinical chemistry QC, is suitable for use on all major platforms.

Order Information		
Multichem S Plus	Config.	Part Code
Assayed Single Level (Level 1)	15 x 10mL	CH101PLA
Assayed Single Level (Level 2)	15 x 10mL	CH102PLA
Assayed Single Level (Level 3)	15 x 10mL	CH103PLA
Unassayed Single Level (Level 1)	15 x 10mL	CH101CRP
Unassayed Single Level (Level 2)	15 x 10mL	CH102CRP
Unassayed Single Level (Level 3)	15 x 10mL	CH103CRP
Mini kit (contains one vial of each level)	3 x 1 x 10mL	CH100MCRP

Analyte List

Chemistry

Albumin
Bilirubin, Direct
Bilirubin, Total
Calcium
Carbon Dioxide (Bicarbonate)
Chloride
Creatinine
Glucose
Iron
Lactic acid
Magnesium
Phosphorous
Potassium
Protein, Total
Sodium
Total Iron Binding Capacity*
Unsaturated Iron Binding Capacity (UIBC)
Urea
Uric Acid

Esoterics

ACE*
Bile Acids
Bili, Indirect*
Caffeine*
Calcium, Ionized*
Copper*
Cortisol
Ethanol
Fructosamine*
NT-proBNP*
Osmolality*
Protein Electrophoresis*
Triiodothyronine*
Thyroxine, (Total T4)
Troponin T*
Zinc*

Immunoproteins

Alpha-1 Aminoglycoprotein
Alpha-1 Antitrypsin
Alpha 2-macroglobulin*
ASO*
ADNase B (Anti-Streptococcal DNase B)*
Antithrombin III*
Apolipoprotein A1
Apolipoprotein B
Beta-2 Microglobulin
C1 Inhibitor*
CH50 (Total hemolytic Complement)*
Cystatin C*
Complement C3
Complement C4
Ceruloplasmin
C-Reactive Protein
Ferritin*
Haptoglobin
Hemopexin*
Immunoglobulin A
Immunoglobulin G
Immunoglobulin M
IgE*
IgG1, Subclass*
IgG2, Subclass*
IgG3, Subclass*
IgG4, Subclass*
Kappa Light Chain*
Lambda Light Chain*
Lipoprotein (a)*
Prealbumin
Properdin Factor B*
Retinol Binding Protein*
Rheumatoid Factor*
Transferrin
sTfR (Soluble Transferrin Receptor)*

Enzymes

Acid Phosphatase
Alanine Aminotransferase (ALT)
Alkaline Phosphatase (ALP)
Amylase (Pancreatic)
Amylase (Total)
Aspartate Aminotransferase (AST)
Alpha-hydroxybutyrate Dehydrogenase
(α-HBDH)*
Beta-hydroxybutyrate Dehydrogenase*
Cholinesterase
Creatine Phosphokinase
CK-MB*
Gamma Glutamyltransferase
Lactate Dehydrogenase (L to P)
Lipase
Prostatic Acid Phosphatase*

Lipids

Cholesterol, HDL
Cholesterol, LDL
Cholesterol, Total
Phospholipids*
Triglycerides

Therapeutic Drugs

Acetaminophen
Amikacin
Carbamazepine
Digoxin
Gentamicin
Lithium
Phenobarbital
Phenytoin
Salicylic Acid
Theophylline
Tobramycin
Valproic Acid
Vancomycin

*Please refer to lot specific package inserts for stability and performance claims.



Multichem® S



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Multichem S contains the same analytes as Multichem S Plus, but excludes CRP and RF.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C.

Instruments

Multichem S, independent clinical chemistry QC, is suitable for use on all major platforms.

Order Information		
Multichem S	Config.	Part Code
Assayed Single Level (Level 1)	15 x 10mL	CH101A
Assayed Single Level (Level 2)	15 x 10mL	CH102A
Assayed Single Level (Level 3)	15 x 10mL	CH103A
Unassayed Single Level (Level 1)	15 x 10mL	CH101X
Unassayed Single Level (Level 2)	15 x 10mL	CH102X
Unassayed Single Level (Level 3)	15 x 10mL	CH103X

Analyte List

Chemistry

Albumin
Bilirubin, Direct
Bilirubin, Total
Calcium
Carbon Dioxide (Bicarbonate)
Chloride
Creatinine
Glucose
Iron
Lactate (Lactic acid)
Magnesium
Phosphorous
Potassium
Protein, Total
Sodium
Total Iron Binding Capacity (TIBC)
Unsaturated Iron Binding Capacity (UIBC)
Urea
Uric Acid

Esoterics

ACE*
Bile Acids
Bilirubin, Indirect*
Caffeine*
Calcium, Ionized*
Copper*
Cortisol
Ethanol
Fructosamine*
NT-proBNP*
Osmolality*
Protein Electrophoresis*
Triiodothyronine, (Total T3)*
Thyroxine, (Total T4)
Troponin T*
Zinc*

Immunoproteins

Alpha-1-acid glycoprotein
Alpha-1 Antitrypsin
Alpha 2-macroglobulin*
Antistreptolysin O (ASO)*
ADNase B (Anti-Streptococcal DNase B)*
Antithrombin III*
Apolipoprotein A1 (APO A1)
Apolipoprotein B (APO B)
Beta -2 Microglobulin
C1 Inhibitor*
CH50 (Total hemolytic Complement)*
Cystatin C*
Complement C3
Complement C4
Ceruloplasmin
Ferritin*
Haptoglobin
Hemopexin*
Immunoglobulin A
Immunoglobulin G
Immunoglobulin M
IgE*
IgG1, Subclass*
IgG2, Subclass*
IgG3, Subclass*
IgG4, Subclass*
Kappa Light Chain*
Lambda Light Chain*
Lipoprotein (a)*
Prealbumin
Properdin Factor B*
Retinol Binding Protein*
Transferrin
sTfR (Soluble Transferrin Receptor)*

Enzymes

Acid Phosphatase
Alanine Aminotransferase (ALT)
Alkaline Phosphatase (ALP)

Amylase (Pancreatic)
Amylase (Total)
Aspartate Aminotransferase (AST)
Alpha-hydroxybutyrate Dehydrogenase (α-HBDH)*
Beta-hydroxybutyrate Dehydrogenase*
Cholinesterase
Creatine Kinase (CK)
CK-MB*
Gamma Glutamyltransferase
Lactate Dehydrogenase (LDH)
Lipase
Prostatic Acid Phosphatase*

Lipids

Cholesterol, HDL
Cholesterol, LDL
Cholesterol, Total
Phospholipids*
Triglycerides

Therapeutic Drugs

Acetaminophen
Amikacin
Carbamazepine
Digoxin
Gentamicin
Lithium
Phenobarbital
Phenytoin
Salicylate
Theophylline
Tobramycin
Valproic Acid
Vancomycin

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® AE



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 14 day open vial stability at 2°C to 8°C.

Instruments

Multichem AE, independent Ammonia and Ethanol QC, is suitable for use on all major platforms.

Order Information		
Multichem AE	Config.	Part Code
Assayed Single Level (Level 1)	12 x 2mL	AE611A
Assayed Single Level (Level 2)	12 x 2mL	AE612A
Assayed Single Level (Level 3)	12 x 2mL	AE613A
Unassayed Single Level (Level 1)	12 x 2mL	AE611X
Unassayed Single Level (Level 2)	12 x 2mL	AE612X
Unassayed Single Level (Level 3)	12 x 2mL	AE613X
Assayed Bi-Level	2 x 6 x 2mL	AE600A
Unassayed Bi-Level	2 x 6 x 2mL	AE600X
Assayed Tri-Level	3 x 4 x 2mL	AE610A
Unassayed Tri-Level	3 x 4 x 2mL	AE610X

Analyte List

Ammonia
Ethanol



Multichem® CSF

Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.



Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 30 day open vial stability at 2°C to 8°C.

Instruments

Multichem CSF, independent Cerebral Spinal Fluid QC, is suitable for use on all major platforms.

Order Information		
Multichem CSF	Config.	Part Code
Assayed Bi-Level	2 x 6 x 2mL	CF100A
Unassayed Bi-Level	2 x 6 x 2mL	CF100X

Analyte List

Glucose
Lactate
IgG
Protein



Multichem® NB

Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.



Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 14 day open vial stability at 2°C to 8°C.

Instruments

- Multichem NB, independent Neonatal Bilirubin QC, is suitable for use on all major platforms.

Order Information		
Multichem NB	Config.	Part Code
Assayed Single Level	12 x 2mL	NB800A
Unassayed Single Level	12 x 2mL	NB800X

Analyte List

Bilirubin, Direct
Bilirubin, Total
Caffeine*
Theophylline



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Immunology Quality Controls

Multichem P (Protein) is specifically designed as a supplementary QC product for immunoproteins to be used in conjunction with our clinical chemistry QC. This product offers elevated concentrations for immunoproteins. Users can use this in conjunction with 1, 2 or 3 levels of Multichem S Plus or Multichem S, each of which already include multiple concentrations for immunoproteins. The full list of products available are shown below.

Multichem® P



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points
- Key elevated protein concentration for key medical relevance.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 14 day open vial stability at 2°C to 8°C.

Instruments

Multichem P is suitable for use on all major platforms.

Order Information		
Multichem P	Config.	Part Code
Assayed Single Level	12 x 3mL	SP41PA
Unassayed Single Level	12 x 3mL	SP40PX

Analyte List

Immunoproteins

Alpha-1-acid glycoprotein
Alpha-1 Antitrypsin
Alpha 2-macroglobulin*
Antistreptolysin O (ASO)*
ADNase B (Anti-Streptococcal DNase)*
Antithrombin III*
Apolipoprotein A1 (APO A1)
Apolipoprotein B (APO B)
Beta -2 Microglobulin
C1 Inhibitor*
CH50 (Total hemolytic Complement)*
Cystatin C*

Chemistry

Albumin*
Angiotensin Converting Enzyme*
Ceruloplasmin
Complement C3
Complement C4
C-Reactive Protein
Ferritin*
Haptoglobin
Hemopexin*
IgE*
IgG1, Subclass*
IgG2, Subclass*
IgG3, Subclass*

IgG4, Subclass*
Immunoglobulin A
Immunoglobulin G
Immunoglobulin M
Kappa Light Chain*
Lambda Light Chain*
Lipoprotein (a)*
Prealbumin
Properdin Factor B*
Retinol Binding Protein*
Rheumatoid Factor
sTfR (Soluble Transferrin Receptor)*
Total Protein*
Transferrin



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Urine Chemistry Quality Control

Our leading urine chemistry control is Multichem U. This product provides a single product to cover the majority of standard urine chemistry assays, including Microalbumin, which some competitors provide a separate QC product for. The full list of products available are shown below.

Multichem® U



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 24 month closed vial stability at 2°C to 8°C.
- 30 day open vial stability at 2°C to 8°C.

Instruments

Multichem U is suitable for use on all major platforms.

Order Information		
Multichem U	Config.	Part Code
Assayed Single Level (Level 1)	15 x 10mL	UC201A.10
Assayed Single Level (Level 2)	15 x 10mL	UC202A.10
Unassayed Single Level (Level 1)	15 x 10mL	UC201X
Unassayed Single Level (Level 2)	15 x 10mL	UC202X

Analyte List

Amylase
Calcium
Chloride
Cortisol
Creatinine
Glucose

Human Chorionic Gonadotropin
Magnesium
Microalbumin
Osmolality
Phosphorous
Potassium

Sodium
Specific Gravity*
Urea Nitrogen
Uric Acid
Urinary Protein



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Immunoassay Quality Controls

Our flagship immunoassay product is Multichem IA Plus. Multichem IA Plus consolidates over 86 analytes into a single product and can replace up to four competitor products in your lab. We also offer Multichem IA, which omits CA 19-9, CA 15-3 and CA 125 from the consolidated list of analytes. In addition to the two consolidated controls, we offer Multichem IA Speciality, providing extended open vial stability for peptide hormones, in addition to tri-level utility for BNP, PTH, ACTH, PCT and CT.

Multichem Immunoassay Quality Controls - Suitable for use on all major platforms			
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem IA Plus	Assayed Tri-Level	3 x 4 x 5mL	IA310A
	Assayed Single Level (Level 1)	12 x 5mL	IA311A
	Assayed Single Level (Level 2)	12 x 5mL	IA312A
	Assayed Single Level (Level 3)	12 x 5mL	IA313A
	Unassayed Tri-Level	3 x 4 x 5mL	IA310X
	Unassayed Single Level (Level 1)	12 x 5mL	IA311X
	Unassayed Single Level (Level 2)	12 x 5mL	IA312X
	Unassayed Single Level (Level 3)	12 x 5mL	IA313X
	Mini Kit (contains one vial of each level)	3 x 1 x 5mL	IA310MX
Multichem IA	Assayed Tri-Level	3 x 4 x 5mL	IA300A
	Assayed Single Level (Level 1)	12 x 5mL	IA301A
	Assayed Single Level (Level 2)	12 x 5mL	IA302A
	Assayed Single Level (Level 3)	12 x 5mL	IA303A
	Unassayed Tri-Level	3 x 4 x 5mL	IA300X
	Unassayed Single Level (Level 1)	12 x 5mL	IA301X
	Unassayed Single Level (Level 2)	12 x 5mL	IA302X
	Unassayed Single Level (Level 3)	12 x 5mL	IA303X
Multichem IA Speciality	Assayed Tri-Level	3 x 4 x 2mL	BP300A
	Assayed Single Level (Level 1)	12 x 2mL	BP301A
	Assayed Single Level (Level 2)	12 x 2mL	BP302A
	Assayed Single Level (Level 3)	12 x 2mL	BP303A
	Unassayed (Tri-Level)	3 x 4 x 2mL	BP300X
	Unassayed Single Level (Level 1)	12 x 2mL	BP301X
	Unassayed Single Level (Level 2)	12 x 2mL	BP302X
	Unassayed Single Level (Level 3)	12 x 2mL	BP303X
	Mini kit (contains one vial of each level)	3 x 1 x 2mL	BP300MX

Multichem® IA Plus



Replace up to four competitor immunoassay QC products with Multichem IA Plus

Corresponding Competitor Products



Multichem
IA Plus



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem IA Plus, independent immunoassay QC, is suitable for use on all major platforms.

Order Information

Multichem IA Plus	Config.	Part Code
Assayed Tri-Level	3 x 4 x 5mL	IA310A
Assayed Single Level (Level 1)	12 x 5mL	IA311A
Assayed Single Level (Level 2)	12 x 5mL	IA312A
Assayed Single Level (Level 3)	12 x 5mL	IA313A
Unassayed Tri-Level	3 x 4 x 5mL	IA310X
Unassayed Single Level (Level 1)	12 x 5mL	IA311X
Unassayed Single Level (Level 2)	12 x 5mL	IA312X
Unassayed Single Level (Level 3)	12 x 5mL	IA313X
Mini kit (contains one vial of each level)	3 x 1 x 5mL	IA310MX

Analyte List



Cancer Markers

Alpha Fetoprotein
CA 125
CA 15-3
CA 19-9
Carcinogenic Embryonic
Antigen
Prostate Specific Antigen,
Free
Prostate Specific Antigen,
Total

Cardiac

BNP
CK-MB
Myoglobin
NT-proBNP
Troponin I
Troponin T
Ultrasensitive CRP*

Allergy

IgE

Thyroid

Anti-Thyroperoxidase
Anti-Thyroglobulin
Calcitonin
Thyroglobulin
Thyroid Stimulating
Hormone
Thyroxine Binding Globulin*

Thyroxine, Free (FT4)
Thyroxine, Total (TT4)
Triiodothyronine, Free (FT3)
Triiodothyronine, Total (TT3)
T Uptake

Anaemia

Erythropoietin (EPO)
Ferritin
Folate
Vitamin B12

Pituitary/Adrenal

Adrenocorticotrophic
hormone (ACTH)
Aldosterone*
Androstenedione*
Cortisol
Human Growth Hormone

Therapeutic Drugs

Acetaminophen
Amikacin
Caffeine*
Carbamazepine
Carbamazepine, Free*
Chloramphenicol*
Cyclosporine*
Digoxin
Disopyramide*
Ethosuximide*
Gentamicin

Ibuprofen*
Lidocaine*
Lithium
N-Acetyl procainamide*
Phenobarbital
Phenytoin
Phenytoin, Free*
Primidone*
Procainamide*
Quinidine*
Salicylate
Theophylline
Tobramycin
Valproic Acid
Valproic Acid, Free*
Vancomycin

Renal

Angiotensin*
Renin*

Bone Metabolism

Ostase*
Parathyroid hormone (PTH)
Procollagen type 1 amino-
terminal propeptide (P1NP)*

Reproductive/Fertility

DHEA Sulfate
Estradiol, Free
Estradiol, Total*
Estrogen, Total*

Estradiol
Follicle Stimulating Hormone
Human Chorionic
Gonadotropin
17-Hydroxyprogesterone*
Leutinizing Hormone
Progesterone
Prolactin
Sex Hormone Binding
Globulin (SHBG)
Testosterone
Testosterone, Free*

Diabetes

C-Peptide
Insulin
Insulin-like Growth Factor
(IGF-1)*

Esoterics

25 (OH) Vitamin D
Homocysteine

*Please refer to lot specific package inserts for stability and performance claims.



Multichem® IA



Multichem IA contains the same analytes as IA Plus, but excludes cancer markers CA 125, CA 15-3 and CA19-9.

Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem IA, independent immunoassay QC, is suitable for use on all major platforms.

Order Information

Multichem IA	Config.	Part Code
Assayed Tri-Level	3 x 4 x 5mL	IA300A
Assayed Single Level (Level 1)	12 x 5mL	IA301A
Assayed Single Level (Level 2)	12 x 5mL	IA302A
Assayed Single Level (Level 3)	12 x 5mL	IA303A
Unassayed Tri-Level	3 x 4 x 5mL	IA300X
Unassayed Single Level (Level 1)	12 x 5mL	IA301X
Unassayed Single Level (Level 2)	12 x 5mL	IA302X
Unassayed Single Level (Level 3)	12 x 5mL	IA303X

Analyte List



Cancer Markers

Alpha Fetoprotein
Carcinogenic Embryonic Antigen
Prostate Specific Antigen, Free
Prostate Specific Antigen, Total

Cardiac

BNP
CK-MB
Myoglobin
NT-proBNP
Troponin I
Troponin T
Ultrasensitive CRP*

Allergy

IgE
Thyroid
Anti-Thyroperoxidase
Anti-Thyroglobulin
Calcitonin
Thyroglobulin
Thyroid Stimulating Hormone
Thyroxine Binding Globulin*
Thyroxine, Free (FreeT4)
Thyroxine, (Total T4)
Triiodothyronine, Free (FreeT3)
Triiodothyronine, (Total T3)
T Uptake

Anaemia

Erythropoietin (EPO)
Ferritin
Folate
Vitamin B12

Pituitary/Adrenal

Adrenocorticotrophic hormone (ACTH)
Aldosterone*
Androstenedione*
Cortisol
Human Growth Hormone

Therapeutic Drugs

Acetaminophen
Amikacin
Caffeine*
Carbamazepine
Carbamazepine, Free*
Chloramphenicol*
Cyclosporine*
Digoxin
Disopyramide*
Ethosuximide*
Gentamicin
Ibuprofen*
Lidocaine*
Lithium
N-Acetyl procainamide*
Phenobarbital
Phenytoin
Phenytoin, Free*
Primidone*
Procainamide*
Quinidine*
Salicylate
Theophylline
Tobramycin
Valproic Acid
Valproic Acid, Free*
Vancomycin

Renal

Angiotensin*
Renin*

Bone Metabolism

Ostase*
Parathyroid hormone (PTH)
Procollagen type 1 amino-terminal
propeptide (P1NP)*

Reproductive/Fertility

DHEA Sulfate
Estrilol, Free
Estrilol, Total*
Estrogen, Total*
Estradiol
Follicle Stimulating Hormone
Human Chorionic Gonadotropin
17-Hydroxyprogesterone*
Leutinizing Hormone
Progesterone
Prolactin
Sex Hormone Binding Globulin (SHBG)
Testosterone
Testosterone, Free*

Diabetes

C-Peptide
Insulin
Insulin-like Growth Factor (IGF-1)*

Esoterics

25 (OH) Vitamin D
Homocysteine

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® IA Speciality



Features

- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 7 day open vial stability at 2°C to 8°C*.

Instruments

Multichem IA Speciality is suitable for use on all major platforms.



Order Information

Multichem IA Speciality	Config.	Part Code
Assayed Tri-Level	3 x 4 x 2mL	BP300A
Assayed Single Level (Level 1)	12 x 2mL	BP301A
Assayed Single Level (Level 2)	12 x 2mL	BP302A
Assayed Single Level (Level 3)	12 x 2mL	BP303A
Unassayed Tri-Level	3 x 4 x 2mL	BP300X
Unassayed Single Level (Level 1)	12 x 2mL	BP301X
Unassayed Single Level (Level 2)	12 x 2mL	BP302X
Unassayed Single Level (Level 3)	12 x 2mL	BP303X
Mini kit (contains one vial of each level)	3 x 1 x 2mL	BP300MX

Analyte List



BNP
PTH Intact
ACTH
Calcitonin
Procalcitonin

*Please refer to lot specific package inserts for stability and performance claims.

Multichem[®] Cardiac Quality Control

Our core cardiac assessment product is the Multichem hsTn QC for high sensitive troponin assays. This product provides a high level of stability and confidence in your testing at the low concentrations that are relevant for today's cardiac assessment strategies. This product can be used as a stand-alone product or in conjunction with our consolidated immunoassay products; Multichem IA Plus or Multichem IA, that include a wide range of cardiac markers.

Multichem[®] hsTn



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem hsTn is suitable for use on all major platforms.

Order Information		
Multichem hsTn	Config.	Part Code
Assayed Single Level	12 x 3mL	HS301A
Unassayed Single Level	12 x 3mL	HS301X
Mini kit Unassayed Single Level	3 x 3mL	HS301MX

Analyte List



Troponin I
Troponin T



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Diabetes Quality Control

Our leading diabetes product is Multichem A1c, third party QC for haemoglobin A1c. The haemoglobin A1c test, also called HbA1c, glycated haemoglobin test, or glyco-haemoglobin, is an important blood test that shows how well a patient's diabetes is being controlled. The full list of products available are shown below.

Multichem® A1c



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 24 month closed vial stability at -20°C to -80°C.
- 30 day open vial stability at 2°C to 8°C*.

Instruments

Multichem A1c is suitable for use on all major platforms.

Order Information		
Multichem A1c	Config.	Part Code
Assayed Bi-Level	2 x 6 x 1mL	HB000A
Assayed Single Level (Level 1) Assayed Single Level (Level 2)	12 x 1mL 12 x 1mL	HB001A HB002A
Assayed Mini Kit (Contains one vial of each level)	2 x 1 x 1mL	HB000M

Analyte List

HbA1c



Multichem® Fertility Quality Control

Multichem AMH Control is intended for use as a third party, tri-level, liquid stable quality control material to monitor the precision of laboratory testing procedures for Anti-Müllerian Hormone Assays.

Multichem® AMH



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 30 day open vial stability at 2°C to 8°C*.

*Please refer to lot specific package inserts for stability and performance claims.

Instruments

Multichem AMH is suitable for use on all major platforms.

Order Information		
Multichem AMH	Config.	Part Code
Assayed Tri-Level	3 x 4 x 2mL	AM500A
Unassayed Tri-Level	3 x 4 x 2mL	AM500X
Unassayed Mini Kit (Contains one vial of each level)	3 x 1 x 2mL	AM500MX

Analyte List

Anti-Müllerian Hormone



Multichem® Immunosuppressant Quality Control

Multichem WBT (WBT for Whole Blood Transplant), provides tri-level QC to monitor the precision of laboratory testing procedures for Cyclosporine, Tacrolimus and Sirolimus assays. The full list of products available are shown below.

Multichem® WBT



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 30 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem WBT is suitable for use on all major platforms.

Order Information		
Multichem WBT	Config.	Part Code
Assayed Tri-Level	3 x 4 x 2mL	WB000A
Unassayed Tri-Level	3 x 4 x 2mL	WB000X

Analyte List

Cyclosporine
Folate*
Glucose*
Sirolimus
Tacrolimus



Multichem® Coagulation Quality Control

Multichem D-Dimer Control is intended for use as a third party, bi-level, liquid stable quality control material to monitor the precision of laboratory testing procedures for D-Dimer Assays

Multichem® D-Dimer



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 30 day open vial stability at 2°C to 8°C*.

Instruments

Multichem D-Dimer is suitable for use on all major platforms.

Order Information		
Multichem D-Dimer	Config.	Part Code
Assayed Single Level (Level 1)	12 x 1mL	DM901A
Assayed Single Level (Level 2)	12 x 1mL	DM902A
Unassayed Single Level (Level 1)	12 x 1mL	DM901X
Unassayed Single Level (Level 2)	12 x 1mL	DM902X
Assayed Bi-Level	2 x 6 x 1mL	DM900A
Unassayed Bi-Level	2 x 6 x 1mL	DM900X
Unassayed Mini Kit (Contains one vial of each level)	2 x 1 x 1mL	DM900MX

Analyte List

D-Dimer



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Infectious Disease Quality Controls

Technopath's Multichem ID (Infectious Disease) range has been specifically tested to match assays commonly used for infectious diseases testing.

Multichem Serology Quality Controls			
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem ID-B	Multi-Analyte Positive Control	4 x 5mL	SR101B ¹
			SR104B
Multichem ID-B Mini Kit	Multi-Analyte Positive Control	1 x 5mL	SR101MB ¹
	Multi-Analyte Positive Control	1 x 5mL	SR104MB
Multichem ID-SeroNeg	Negative Control	4 x 5mL	SR100N
Multichem ID-SeroNeg Mini Kit	Negative Control	1 x 5mL	SR100MN

1: Anti-HCV IgG values not provided for Alinity i and ARCHITECT i



Multichem® ID-B



Features

- Ready to use liquid stable controls
- Manufactured using native human plasma
- Direct sampling from control tubes
- Barcoded for ease of use
- Technical and Scientific support

Specifications

- 24 month closed tube stability at 2°C to 8°C.
- 90 day open tube stability at 2°C to 8°C.

Instruments

For information on instruments, please choose your country-specific Instructions for Use:

<https://eifu.technopathcd.com>

Order Information		
Multichem ID-B	Config.	Part Code
Positive Control	4 x 5mL	SR101B ¹
		SR104B
Positive Control Mini Kit	1 x 5mL	SR101MB ¹
		SR104MB

Positive For

Anti-HIV-1 IgG
 Anti-HCV IgG
 Anti-HBc IgG
 HBsAg
 Anti-HTLV-I IgG
 Anti-Treponema Pallidum IgG



CE-marked assays approved for use in the EU:

Analyser Systems		
Manufacturer	System	Assay Name
Abbott	Alinity i	Anti-HBc II
		Anti-HCV CMIA
		HBsAg Qualitative II
		HIV Ag/Ab Combo
		rHTLV I/II
		Syphilis TP
Abbott	Alinity s	Anti-HBc
		Anti-HCV II
		HBsAg
		HIV Ag/Ab Combo
		HTLV I/II
		Syphilis
Abbott	Architect i	Anti-HBc II CMIA
		Anti-HCV CMIA
		HBsAg Qualitative II CMIA
		HIV Ag/Ab Combo CMIA
		rHTLV-I/II CMIA
		Syphilis TP CMIA
DiaSorin	Liaison	Anti-HBc CLIA
		Treponema Screen CLIA
DiaSorin	Liaison XL Murex	HBsAg Quant CLIA
		HCV Ab CLIA
		HIV Ab/Ag CLIA
		recHTLV-I/II CLIA

Alinity, Alinity ci-series, Alinity c, Alinity i and ARCHITECT are trademarks of Abbott Laboratories in various jurisdictions.

1: Anti-HCV IgG values not provided for Alinity i and ARCHITECT i.



Multichem® ID-SeroNeg



Features

- Ready to use liquid stable controls
- Manufactured using native human plasma
- Direct sampling from control tubes
- Barcoded for ease of use
- Technical and Scientific support

Specifications

- 36 month closed tube stability at 2°C to 8°C.
- 90 day open tube stability at 2°C to 8°C.

Instruments

For information on instruments, please choose your country-specific Instructions for Use:
<https://eifu.technopathcd.com>



Order Information

Multichem ID-SeroNeg	Config.	Part Code
Unassayed Negative Control	4 x 5mL	SR100N
Unassayed Negative Control Mini Kit	1 x 5mL	SR100MN

Negative For



Anti-HIV-1 IgG
Anti-HCV IgG
Anti-HBc IgG
HBsAg
Anti-HTLV-I IgG
Anti-Treponema Pallidum IgG
HIV 1 p24 Antigen*

* Available Soon

Multichem® Infectious Disease Quality Controls

- Available in USA -

Multichem COVID-19 Quality Controls				
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE	
Multichem ID-COVID19 G	Unassayed Positive Control	4 x 4mL	CVG200P	CVG300P
Multichem ID-COVID19Neg	Unassayed Negative Control	4 x 4mL	CVN200N	

Multichem Serology Quality Controls			
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem ID-B	Unassayed Multi-Analyte Positive Control	4 x 5mL	SR103B
Multichem ID-B Mini Kit	Unassayed Multi-Analyte Positive Control	1 x 5mL	SR103MB**
Multichem ID-SeroNeg	Unassayed Negative Control	4 x 5mL	SR100N
Multichem ID-SeroNeg Mini Kit	Unassayed Negative Control	1 x 5mL	SR100MN

Multichem® ID-COVID19 G

Features

- Ready to use liquid stable controls
- Technical and Scientific support

Specifications

- 12 month closed vial stability at 2°C to 8°C.
- 21 day open vial stability at 2°C to 8°C.

Instructions for Use:

<https://eifu.technopathcd.com>



Multichem® ID-COVID19Neg

Features

- Ready to use liquid stable controls
- Technical and Scientific support

Specifications

- 36 month closed vial stability at 2°C to 8°C.
- 30 day open vial stability at 2°C to 8°C.

Instructions for Use:

<https://eifu.technopathcd.com>



Order Information		
Multichem ID-COVID19 G	Config.	Part Code
Unassayed Positive Control	4 x 4mL	CVG200P
		CVG300P

Positive For

Immunoglobulin G (IgG) antibodies to SARS-CoV-2

NOTE

- This product is not intended for use in donor screening testing.
- This is an unassayed product, with no platform claims in the USA

**Available soon.

Order Information		
Multichem ID-COVID19 G	Config.	Part Code
Unassayed Negative Control	4 x 4mL	CVN200N

Negative For

Immunoglobulin G (IgG) antibodies to SARS-CoV-2

NOTE

- This product is not intended for use in donor screening testing.
- This is an unassayed product, with no platform claims in the USA

Multichem® ID-B



Features

- Ready to use liquid stable controls
- Manufactured using native human plasma
- Direct sampling from control tubes
- Barcoded for ease of use
- Technical and Scientific support

Specifications

- 24 month closed tube stability at 2°C to 8°C.
- 90 day open tube stability at 2°C to 8°C.

Instructions for Use:

<https://eifu.technopathcd.com>

Order Information		
Multichem ID-B	Config.	Part Code
Unassayed Multi-Analyte Positive Control	4 x 5mL	SR103B
Unassayed Positive Control Mini Kit	1 x 5mL	SR103MB*

Positive For



Anti-HIV-1 IgG
Anti-HCV IgG
Anti-HBc IgG
HBsAg
Anti-HTLV-I IgG
Anti-Treponema Pallidum IgG

INFORMATION FOR USA ONLY:

- This product is not intended for use in donor screening testing.
- This is an unassayed product, with no platform claims in the USA.

Multichem® ID-SeroNeg



Features

- Ready to use liquid stable controls
- Manufactured using native human plasma
- Direct sampling from control tubes
- Barcoded for ease of use
- Technical and Scientific support

Specifications

- 36 month closed tube stability at 2°C to 8°C.
- 90 day open tube stability at 2°C to 8°C.

Instructions For Use:

<https://eifu.technopathcd.com>

Order Information		
Multichem ID-SeroNeg	Config.	Part Code
Unassayed Negative Control	4 x 5mL	SR100N
Unassayed Negative Control Mini Kit	1 x 5mL	SR100MN

Negative For



Anti-HIV-1 IgG
Anti-HCV IgG
Anti-HBc IgG
HBsAg
Anti-HTLV-I IgG
Anti-Treponema Pallidum IgG
HIV 1 p24 Antigen*

INFORMATION FOR USA ONLY:

- This product is not intended for use in donor screening testing.
- This is an unassayed product, with no platform claims in the USA.

*Available soon.



Multichem® Independent Quality Controls for use on Abbott Alinity and ARCHITECT ci Systems.

Targeted at Clinical decision points, Technopath's consolidated Multichem QC is value assigned for Alinity and ARCHITECT ci systems. Consolidated controls increase laboratory efficiencies by reducing:

- Handling time
- Dead-volume waste
- Weight of waste consumables
- Storage requirements
- QC analysis time with IAMQC® Software.

Technopath is the ONLY validated and approved, on-board independent QC for the Abbott Alinity ci-series

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Analyte Guide*

Immunoassay & Chemistry

Multichem® QC available to order through Abbott

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem IA Plus	Multichem P	Multichem U	Multichem Alc	Multichem hsTn	Multichem WBT
17 Hydroxyprogesterone		○					
A							
Acetaminophen	●	○					
Acid Phosphatase	●						
Adrenocorticotrophic Hormone (ACTH)		○					
Alanine Aminotransferase (ALT)	●						
Albumin	●		○				
Aldosterone		○					
Alkaline Phosphatase	●						
Alpha Fetoprotein (AFP)		●					
Alpha-hydroxybutyrate Dehydrogenase (α-HBDH)	●						
Alpha-1-acid Glycoprotein	●		●				
Alpha-1-antitrypsin (A1AT)	●		●				
Alpha 2-macroglobulin	○		○				
Amikacin	●	○					
Amylase, Pancreatic	●						
Amylase, Total	●		●				
Androstenedione		○					
Angiotensin Converting Enzyme	○	○	○				
Anti-Streptococcal DNase (ADNase B)	○		○				
Antistreptolysin O (ASO)	●		○				
Anti-Thyroglobulin		●	○				
Antithrombin III	○		○				
Anti-thyroxine (Anti-TPO)		●					
Apolipoprotein A1 (APO A1)	●		●				
Apolipoprotein B (APO B)	●		●				
Aspartate Aminotransferase (AST)	●						
B							
Beta-hydroxybutyrate Dehydrogenase	○						
Beta-2-Microglobulin	●		●				
Bile Acids	●						
Bilirubin, Direct	●						
Bilirubin, Indirect	○						
Bilirubin, Total	●						
BNP		●					
C							
C1 Inhibitor	○		○				
CA 125		●					
CA 15-3		●					
CA 19-9		●					
Caffeine	○	○					
Calcitonin		○					
Calcium	●			●			
Calcium, Ionized	○						
Carbamazepine, Free		○					
Carbamazepine, Total	●	●					
Carbon Dioxide (CO2)	●						
Carcinogenic Embryonic Antigen (CEA)		●					
Ceruloplasmin	●		●				
CH50 (Total hemolytic Complement)	○		○				
Chloramphenicol		○					
Chloride	●			●			
Cholesterol, HDL	●						
Cholesterol, LDL	●						
Cholesterol, Total	●						
Cholinesterase (CHE)	●						
CK-MB	○	●					
Complement C3	●		●				
Complement C4	●		●				
Copper	○						
Cortisol	●	●		●			
C-Peptide		●					
C-Reactive Protein	●		●				
Creatinine	●			●			
Creatine Kinase (CK)	●						
CRP, Ultra-sensitive		○					
Cyclosporine		○					●
Cystatin C	○		○				

Analyte Guide*

Immunoassay & Chemistry

Multichem® QC available to order through Abbott

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem IA Plus	Multichem P	Multichem U	Multichem Alc	Multichem hsTn	Multichem WBT
D							
DHEA Sulfate		●					
Digoxin	●	●					
Disopyramide		○					
E							
EPO		○					
Estradiol		●					
Estril, Total		○					
Estril, Free		○					
Estrogen, Total		○					
Ethanol	●						
Ethoximide		○					
F							
Ferritin	○	●	○				
Folate		●					○
Follicle Stimulating Hormone (FSH)		●					
Fructosamine	●						
G							
Gamma Glutamyltransferase (GGT)	●						
Gentamicin	●	●					
Glucose	●			●			○
H							
Haptoglobin	●		●				
HbA1c					●		
Hemopexin	○		○				
Homocysteine		●					
Human Chorionic Gonadotropin (hCG)		●		○			
Human Growth Hormone		○					
I							
Ibuprofen		○					
IgG1 Subclass	○		○				
IgG2 Subclass	○		○				
IgG3 Subclass	○		○				
IgG4 Subclass	○		○				
Immunoglobulin A (IgA)	●		●				
Immunoglobulin E (IgE)	○	●	○				
Immunoglobulin G (IgG)	●		●				
Immunoglobulin M (IgM)	●		●				
Insulin		●					
Insulin Like Growth Factor (IGF-1)		○					
Iron	●						
K							
Kappa Light Chain	●		○				
L							
Lactate (Lactic Acid)	●						
Lactate Dehydrogenase (LDH)	●						
Lambda Light Chain	●		○				
Luteinizing Hormone (LH)		●					
Lidocaine		○					
Lipase	●						
Lipoprotein (a)	●		○				
Lithium	●	○					
M							
Magnesium	●			●			
Microalbumin				●			
Myoglobin		●					
N							
N-Acetyl-Procaïnamide (NAPA)		○					
NT-proBNP	○	●					
O							
Osmolality	○			○			
Ostease		○					
P							
Parathyroid Hormone (PTH) (1-84)		●					
Phenobarbital	●	●					
Phenytoin, Free		○					
Phenytoin, Total	●	●					
Phospholipids	○						

*Please refer to lot specific package inserts for stability and performance claims.

**Coming Soon

Analyte Guide*

Immunoassay & Chemistry

Multichem® QC available to order through Abbott

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem IA Plus	Multichem P	Multichem U	Multichem A1c	Multichem hsTn	Multichem WBT
Phosphorus	●			●			
Potassium	●			●			
Prealbumin	●		●				
Primidone		○					
Procainamide		○					
Procalcitonin							
Procollagen NP type 1 (P1NP)		○					
Progesterone		●					
Prolactin		●					
Properdin Factor B	○		○				
Prostate Specific Antigen (PSA) Free		●					
Prostate Specific Antigen (PSA) Total		●					
Prostatic Acid Phosphatase	○						
Protein Electrophoresis	○						
Protein, Total	●		○				
Q							
Quinidine		○					
R							
Renin		○					
Retinol Binding Protein	○		○				
Rheumatoid Factor (RF)	●		●				
S							
Salicylate	●	○					
Sex Hormone Binding Globulin (SHBG)		●					
Sirolimus							●
Sodium	●			●			
Soluble Transferrin Receptor (sTfR)	○		○				
Specific Gravity				○			
T							
Tacrolimus							●
Testosterone, Total		●					
Testosterone, Free		○					
Theophylline	●	●					
Thyroglobulin (Tg)		●					
Thyroid Stimulating Hormone (TSH)		●					
Thyroxine, Free (FT4)		●					
Thyroxine, Total (TT4)	●	●					
Thyroxine Binding Globulin (TBG)		○					
Tobramycin	●	○					
Total Iron Binding Capacity (TIBC)	○						
Transferrin	●		●				
Triglycerides	●						
Triiodothyronine, Free (FT3)		●					
Triiodothyronine, Total (TT3)	○	●					
Troponin I		●				●	
Troponin T	○	○					
T-Uptake		●					
U							
UIBC	●						
Urea Nitrogen	●			●			
Uric Acid	●			●			
Urinary Protein (Urine Total Protein)				●			
V							
Valproic Acid, Total	●	●					
Valproic Acid, Free		○					
Vancomycin	●	●					
Vitamin B12		●					
Vitamin D		●					
Z							
Zinc	○						



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Chemistry Quality Controls

for Abbott ARCHITECT & Alinity c Systems

Multichem Chemistry Quality Controls - Suitable for use on Abbott c systems			
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem S Plus for Alinity c Barcoded QC	Assayed Single Level (Level 1)	12 x 5mL	08P88-10
	Assayed Single Level (Level 2)	12 x 5mL	08P88-11
	Assayed Single Level (Level 3)	12 x 5mL	08P88-12
Multichem S Plus for ARCHITECT c	Assayed Single Level (Level 1)	12 x 5mL	05P78-10
	Assayed Single Level (Level 2)	12 x 5mL	05P78-11
	Assayed Single Level (Level 3)	12 x 5mL	05P78-12
Multichem LPS for ARCHITECT c & Alinity c	Assayed Tri-Level	3 x 4 x 3mL	06V83-10



Multichem® S Plus

Onboard and Offboard

Test consolidation for serum chemistry and immunology QC in a liquid stable format for Alinity and ARCHITECT systems



Benefits

- On-board storage on the Alinity c system in a temperature controlled reagent carousel.
- Automatically runs directly from the vial at user-defined intervals.
- Barcoded vials make loading faster and easier - minimizing errors.
- On-board stability is monitored by the Alinity system software.

Features

- Human matrix based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 10 day open vial stability at 2°C to 8°C*.
- 5 day onboard storage*

Instruments

Multichem S Plus is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information		
Multichem S Plus (Alinity)	Config.	Part Code
Assayed Single Level (Level 1)	12 x 5mL	08P88-10
Assayed Single Level (Level 2)	12 x 5mL	08P88-11
Assayed Single Level (Level 3)	12 x 5mL	08P88-12

Analyte List



Acetaminophen	Cholesterol HDL	Lipoprotein (a)
Acid Phosphatase	Cholesterol LDL	Lithium
ADNase B (Anti-Streptococcal DNase B)*	Cholesterol Total	Magnesium
Alanine Aminotransferase (ALT)	Cholinesterase	Osmolality*
Albumin BCG	Complement C3	Phenobarbital
Alkaline Phosphatase (ALP)	Complement C4	Phenytoin
Alpha Hydroxybutyrate Dehydrogenase	Copper*	Phosphorous
Alpha-1 Acidglycoprotein	Cortisol*	Potassium
Alpha-1 Antitrypsin	C-Reactive Protein	Prealbumin
Alpha-2-Macroglobulin*	Creatine Kinase (CK)	Properdin Factor B*
Amikacin	Creatinine Enzymatic	Prostatic Acid Phosphatase*
Amylase	Cystatin C*	Protein Electrophoresis*
Amylase Pancreatic	Digoxin	Protein, Total
Angiotensin Converting Enzyme*	Ethanol	Retinol Binding Protein*
Anti-streptolysin O (ASO)	Ferritin*	Rheumatoid Factor
Antithrombin III*	Fructosamine	Salicylate
Apolipoprotein A1	Gamma Glutamyltransferase	Sodium
Apolipoprotein B	Gentamicin	sTfR (Soluble Transferrin Receptor)*
Aspartate Aminotransferase (AST)	Glucose	Theophylline
Beta -2 Microglobulin	Haptoglobin	Thyroxine, Total (TT4)*
Beta Hydroxybutyrate Dehydrogenase*	Hemopexin*	Tobramycin
Bile Acids	IgE*	Total Iron Binding Capacity*
Bilirubin Indirect*	IgG1, Subclass*	Transferrin
Bilirubin, Direct	IgG2, Subclass*	Triglycerides
Bilirubin, Total	IgG3, Subclass*	Triiodothyronine, Total (TT3)*
C1 Inhibitor*	IgG4, Subclass*	Unsaturated Iron Binding Capacity (UIBC)
Caffeine*	Immunoglobulin A	Urea Nitrogen
Calcium	Immunoglobulin G	Uric Acid
Calcium Ionized*	Immunoglobulin M	Valproic Acid
Carbamazepine	Iron	Vancomycin
Carbon Dioxide (Bicarbonate)	Kappa Light Chain	Zinc*
Ceruloplasmin	Lactate	
CH50 (Total hemolytic Complement)*	Lactate Dehydrogenase (LDH)	
Chloride	Lambda Light Chain	
	Lipase	

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® S Plus

Offboard

Test consolidation for serum chemistry and immunology QC in a liquid stable format for ARCHITECT and Alinity systems



Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem S Plus is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem S Plus (ARCHITECT)	Config.	Part Code
Assayed Single Level (Level 1)	12 x 5mL	05P78-10
Assayed Single Level (Level 2)	12 x 5mL	05P78-11
Assayed Single Level (Level 3)	12 x 5mL	05P78-12

Features

- Human matrix based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Analyte List



Acetaminophen	Cholesterol HDL	Lipoprotein (a)
Acid Phosphatase	Cholesterol LDL	Lithium
ADNase B (Anti-Streptococcal DNase B)*	Cholesterol Total	Magnesium
Alanine Aminotransferase (ALT)	Cholinesterase	Osmolality*
Albumin BCG	Complement C3	Phenobarbital
Alkaline Phosphatase (ALP)	Complement C4	Phenytoin
Alpha Hydroxybutyrate Dehydrogenase	Copper*	Phosphorous
Alpha-1 Acidglycoprotein	Cortisol*	Potassium
Alpha-1 Antitrypsin	C-Reactive Protein	Prealbumin
Alpha-2-Macroglobulin*	Creatine Kinase (CK)	Properdin Factor B*
Amikacin	Creatinine Enzymatic	Prostatic Acid Phosphatase*
Amylase	Cystatin C*	Protein Electrophoresis*
Amylase Pancreatic	Digoxin	Protein, Total
Angiotensin Converting Enzyme*	Ethanol	Retinol Binding Protein*
Anti-streptolysin O (ASO)	Ferritin*	Rheumatoid Factor
Antithrombin III*	Fructosamine	Salicylate
Apolipoprotein A1	Gamma Glutamyltransferase	Sodium
Apolipoprotein B	Gentamicin	sTfR (Soluble Transferrin Receptor)*
Aspartate Aminotransferase (AST)	Glucose	Theophylline
Beta -2 Microglobulin	Haptoglobin	Thyroxine, Total (TT4)*
Beta Hydroxybutyrate Dehydrogenase*	Hemopexin*	Tobramycin
Bile Acids	IgE*	Total Iron Binding Capacity*
Bilirubin Indirect*	IgG1, Subclass*	Transferrin
Bilirubin, Direct	IgG2, Subclass*	Triglycerides
Bilirubin, Total	IgG3, Subclass*	Triiodothyronine, Total (TT3)*
C1 Inhibitor*	IgG4, Subclass*	Unsaturated Iron Binding Capacity (UIBC)
Caffeine*	Immunoglobulin A	Urea Nitrogen
Calcium	Immunoglobulin G	Uric Acid
Calcium Ionized*	Immunoglobulin M	Valproic Acid
Carbamazepine	Iron	Vancomycin
Carbon Dioxide (Bicarbonate)	Kappa Light Chain	Zinc*
Ceruloplasmin	Lactate	
CH50 (Total hemolytic Complement)*	Lactate Dehydrogenase (LDH)	
Chloride	Lambda Light Chain	
	Lipase	

*Please refer to lot specific package inserts for stability and performance claims.



Multichem® LPS

Offboard

Lipase QC in a Liquid Stable Format for ARCHITECT and Alinity systems



Features

- Human based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Tri-level utility
- Human based Lipase provides greater accuracy and performance
- Liquid for ease of use

Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 14 day open vial stability at 2°C to 8°C*.

Instruments

Multichem LPS is assayed and value assigned for ARCHITECT and Alinity systems.

Value Assignment

- Abbott Lipase 2 (Lip2) assay 04U0020 (Alinity)
- Abbott Lipase 2 (Lip2) assay 04T0420 (ARCHITECT)
- Target values available for ARCHITECT Lipase assay 7D80

Order Information		
Multichem LPS (Alinity/ARCHITECT)	Config.	Part Code
Assayed Tri-level	3 x 4 x 3mL	06V83-10

Analyte List

Lipase



Multichem® Immunology Quality Controls

for Abbott ARCHITECT & Alinity c Systems

Multichem Immunology Quality Controls - Suitable for use on Abbott c systems

PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem P for Alinity c Barcoded QC	Assayed Single Level Kit	12 x 3mL	08P90-10
Multichem P for ARCHITECT c	Assayed Single Level Kit	12 x 3mL	05P81-10

Multichem® P

Onboard and Offboard

Test Consolidation for Serum elevated Immunoprotein QC in a Liquid Stable Format for Alinity and ARCHITECT systems



Benefits

- On-board storage on the Alinity c system in a temperature controlled reagent carousel.
- Automatically runs directly from the vial at user-defined intervals.
- Barcoded vials make loading faster and easier - minimizing errors.
- On-board stability is monitored by the Alinity system software.

Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Key elevated protein concentration for key medical relevance.
- Liquid for ease of use

Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 14 day open vial stability at 2°C to 8°C*.
- 7 day onboard storage*

Instruments

Multichem P is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem P (Alinity)	Config.	Part Code
Assayed Single Level	12 x 3mL	08P90-10

Analyte List

ADNase B (Anti-Streptococcal DNase)*	CH50 (Total hemolytic Complement)*	Immunoglobulin A
Albumin*	Complement C3	Immunoglobulin G
Alpha 2-macroglobulin*	Complement C4	Immunoglobulin M
Alpha-1 Antitrypsin	C-Reactive Protein	Kappa Light Chain*
Alpha-1-acid glycoprotein	Cystatin C*	Lambda Light Chain*
Angiotensin Converting Enzyme*	Ferritin*	Lipoprotein (a)*
Antistreptolysin O (ASO)*	Haptoglobin	Prealbumin
Antithrombin III*	Hemopexin*	Properdin Factor B*
Apolipoprotein A1 (APO A1)	IgE*	Retinol Binding Protein*
Apolipoprotein B (APO B)	IgG1, Subclass*	Rheumatoid Factor
Beta -2 Microglobulin	IgG2, Subclass*	sTfR (Soluble Transferrin Receptor)*
C1 Inhibitor*	IgG3, Subclass*	Total Protein*
Ceruloplasmin	IgG4, Subclass*	Transferrin

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® P

Offboard

Test consolidation for serum elevated immunoprotein QC in a liquid stable format for ARCHITECT and Alinity systems



Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 14 day open vial stability at 2°C to 8°C*.

Instruments

Multichem P is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem P (ARCHITECT)	Config.	Part Code
Assayed Single Level	12 x 3mL	05P81-10

Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Key elevated protein concentration for key medical relevance.
- Liquid for ease of use

Analyte List



ADNase B (Anti-Streptococcal DNase)*
Albumin*
Alpha 2-macroglobulin*
Alpha-1 Antitrypsin
Alpha-1-acid glycoprotein
Angiotensin Converting Enzyme*
Antistreptolysin O (ASO)*
Antithrombin III*
Apolipoprotein A1 (APO A1)
Apolipoprotein B (APO B)
Beta -2 Microglobulin
C1 Inhibitor*
Ceruloplasmin

CH50 (Total hemolytic Complement)*
Complement C3
Complement C4
C-Reactive Protein
Cystatin C*
Ferritin*
Haptoglobin
Hemopexin*
IgE*
IgG1, Subclass*
IgG2, Subclass*
IgG3, Subclass*
IgG4, Subclass*

Immunoglobulin A
Immunoglobulin G
Immunoglobulin M
Kappa Light Chain*
Lambda Light Chain*
Lipoprotein (a)*
Prealbumin
Properdin Factor B*
Retinol Binding Protein*
Rheumatoid Factor
sTfR (Soluble Transferrin Receptor)*
Total Protein*
Transferrin



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Urine Chemistry Quality Control

for Abbott ARCHITECT & Alinity c Systems

Multichem Chemistry Quality Controls - Suitable for use on Abbott c systems

PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem U for Architect c	Assayed Bi-Level Kit	2 x 6 x 5mL	05P80-10
Multichem U for Alinity c Barcoded QC	Assayed Bi-Level Kit	2 x 6 x 5mL	08P89-10

Multichem® U

Onboard and Offboard

Test consolidation for urine chemistry QC
in a liquid stable format for
Alinity and ARCHITECT systems



Benefits

- On-board storage on the Alinity c system in temperature controlled reagent carousel
- Automatically run directly from the vial at user-defined intervals.
- Barcoded vials make loading faster and easier - minimizing errors.
- On-board stability is monitored by the Alinity system software.

Features

- Human matrix based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 24 month closed vial stability at 2°C to 8°C*.
- 30 day open vial stability at 2°C to 8°C*.
- 7 day onboard storage stability*

Instruments

Multichem U is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem U (Alinity)	Config.	Part Code
Assayed Bi-Level	2 x 6 x 5mL	08P89-10

Analyte List

Amylase
Calcium
Chloride
Cortisol
Creatinine
Glucose

Human Chorionic Gonadotropin*
Magnesium
Microalbumin
Osmolality*
Phosphorous
Potassium

Sodium
Specific Gravity*
Urea Nitrogen
Uric Acid
Urinary Protein

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® U

Offboard

Test consolidation for urine chemistry QC
in a liquid stable format for ARCHITECT and Alinity systems



Specifications

- 24 month closed vial stability at 2°C to 8°C*.
- 30 day open vial stability at 2°C to 8°C*.

Instruments

Multichem U is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem U (ARCHITECT)	Config.	Part Code
Assayed Bi-Level	2 x 6 x 5mL	05P80-10

Features

- Human matrix based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Analyte List

Amylase	Human Chorionic Gonadotropin*	Sodium
Calcium	Magnesium	Specific Gravity*
Chloride	Microalbumin	Urea Nitrogen
Cortisol	Osmolality*	Uric Acid
Creatinine	Phosphorous	Urinary Protein
Glucose	Potassium	

*Please refer to lot specific package inserts for stability and performance claims.



Multichem® Immunoassay Quality Controls

for Abbott ARCHITECT & Alinity i Systems

Multichem Immunoassay Quality Controls - Suitable for use on Abbott i systems			
PRODUCT	DESCRIPTION	KIT CONFIGURATION	PART CODE
Multichem IA Plus for Architect and Alinity i Barcoded QC	Assayed Tri-Level	3 x 4 x 5mL	08P86-10
Multichem IA Plus for ARCHITECT i	Assayed Tri-Level	3 x 4 x 5mL	05P76-10



Multichem® IA Plus

Onboard and Offboard

Test consolidation for serum immunoassay QC
in a liquid stable format for
Alinity and ARCHITECT systems



Benefits

- On-board storage on the Alinity i system in a temperature controlled reagent carousel.
- Automatically runs directly from the vial at user-defined intervals.
- Barcoded vials make loading faster and easier - minimizing errors.
- On-board stability is monitored by the Alinity system software.

Features

- Human matrix based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 10 day open vial stability at 2°C to 8°C*.
- 5 day onboard storage*

Instruments

Multichem IA Plus is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem IA Plus (Alinity)	Config.	Part Code
Assayed Tri-Level	3 x 4 x 5mL	08P86-10

Analyte List



17-Hydroxyprogesterone*	Estradiol	Procainamide*
25-OH Vitamin D	Estriol, Free*	Procollagen NP Type 1*
Acetaminophen*	Estriol, Total*	Progesterone
Adrenocorticotrophic Hormone (ACTH)*	Estrogen, Total*	Prolactin
Aldosterone*	Ethosuximide*	Prostate Specific Antigen, Free
Alpha Fetoprotein (AFP)	Ferritin	Prostate Specific Antigen, Total
Amikacin*	Folate	Quinidine*
Androstenedione*	Follicle Stimulating Hormone (FSH)	Renin*
Angiotensin*	Gentamicin*	Salicylate*
Anti-thyroglobulin	High Sensitive Troponin I	Sex Hormone Binding Globulin
Anti-thyroperoxidase	Homocysteine	Testosterone
BNP (1-32)	Human Chorionic Gonadotropin (hCG)	Testosterone, Free*
CA 125	Human Growth Hormone*	Theophylline*
CA 15-3	Ibuprofen*	Thyroglobulin
CA 19-9	Immunoglobulin E (IgE)	Thyroid Stimulating Hormone (TSH)
Caffeine*	Insulin	Thyroxine Binding Globulin*
Calcitonin*	Insulin Like Growth Factor (IGF-1)*	Thyroxine, Free (FT4)
Carbamazepine*	Lidocaine*	Thyroxine, Total (TT4)
Carbamazepine, Free*	Lithium*	Tobramycin*
Carcinogenic Embryonic Antigen (CEA)	Luteinizing Hormone	Triiodothyronine, Free (FT3)
Chloramphenicol*	Myoglobin	Triiodothyronine, Total (TT3)
CK-MB	N-Acetyl procainamide*	Troponin T*
Cortisol	NT Pro-BNP	T-Uptake
C-Peptide	Ostase*	Ultra Sensitive CRP*
Cyclosporine*	Parathyroid Hormone (PTH) (1-84)	Valproic Acid*
DHEA-Sulfate	Phenobarbital*	Valproic Acid, Free*
Digoxin*	Phenytoin*	Vancomycin*
Disopyramide*	Phenytoin, Free*	Vitamin B12
EPO*	Primidone*	

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® IA Plus

Offboard

Test consolidation for serum immunoassay QC
in a liquid stable format for ARCHITECT and Alinity systems



Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem IA Plus is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information

Multichem IA Plus (ARCHITECT)	Config.	Part Code
Assayed Tri-Level	3 x 4 x 5mL	05P76-10

Features

- Human matrix based proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Analyte List



17-Hydroxyprogesterone*	Estriol, Free*	Procainamide*
25 (OH) Vitamin D	Estriol, Total*	Procollagen type 1 amino-terminal propeptide (P1NP)*
Acetaminophen*	Estrogen, Total*	Progesterone
Adrenocorticotrophic hormone (ACTH)*	Ethosuximide*	Prolactin
Aldosterone*	Ferritin	Prostate Specific Antigen, Free
Alpha Fetoprotein	Folate	Prostate Specific Antigen, Total
Amikacin*	Follicle Stimulating Hormone	Quinidine*
Androstenedione*	Gentamicin	Renin*
Angiotensin*	High Sensitive Troponin I	Salicylate*
Anti-Thyroglobulin	Homocysteine	Sex Hormone Binding Globulin (SHBG)
Anti-Thyroperoxidase	Human Chorionic Gonadotropin (hCG)	T Uptake
BNP (1-32)	Human Growth Hormone*	Testosterone
CA 125	Ibuprofen*	Testosterone, Free*
CA 15-3	Immunoglobulin E (IgE)	Theophylline
CA 19-9	Insulin	Thyroglobulin
Caffeine*	Insulin-like Growth Factor (IGF-1)*	Thyroid Stimulating Hormone (TSH)
Calcitonin*	Leutinizing Hormone	Thyroxine Binding Globulin*
Carbamazepine	Lidocaine*	Thyroxine, Free (FT4)
Carbamazepine, Free*	Lithium*	Thyroxine, Total (TT4)
Carcinogenic Embryonic Antigen	Myoglobin	Tobramycin*
Chloramphenicol*	N-Acetyl procainamide*	Triiodothyronine, Free (FT3)
CK-MB	NT-proBNP	Triiodothyronine, Total (TT3)
Cortisol	Ostase*	Troponin I
C-Peptide	Parathyroid Hormone (PTH) (1-84)	Troponin T*
Cyclosporine*	Parathyroid Hormone (PTH) (1-84) (STAT)	Ultrasensitive CRP*
DHEA Sulfate	Phenobarbital	Valproic Acid
Digoxin	Phenytoin	Valproic Acid, Free*
Disopyramide*	Phenytoin, Free*	Vancomycin
Erythropoietin (EPO)*	Primidone*	Vitamin B12
Estradiol		

*Please refer to lot specific package inserts for stability and performance claims.



Multichem® Cardiac Quality Control

for Abbott ARCHITECT & Alinity i Systems

Multichem® hsTn

Offboard



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 36 month closed vial stability at -20°C to -80°C*.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem hsTn is assayed and value assigned for ARCHITECT and Alinity systems

Order Information

Multichem hsTn (Alinity / ARCHITECT)	Config.	Part Code
Assayed Single Level	12 x 3mL	04W26-10

Analyte List

Troponin I



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Diabetes Quality Control

for Abbott ARCHITECT & Alinity c Systems

Multichem® A1c

Offboard



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 24 month closed vial stability at -20°C to -80°C*.
- 30 day open vial stability at 2°C to 8°C*.

Instruments

Multichem A1c is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information		
Multichem A1c (ARCHITECT)	Config.	Part Code
Assayed Bi-Level	2 x 6 x 1mL	04V06-10

Analyte List
HbA1c



Multichem® Immunosuppressant Quality Control

for Abbott ARCHITECT & Alinity i Systems

Multichem® WBT

Offboard



Features

- Human-based matrix proprietary formulation.
- Mimics performance of patient samples.
- Targeted at key clinical decision points.
- Liquid for ease of use.

Specifications

- 30 month closed vial stability at -20°C to -80°C*.
- 10 day open vial stability at 2°C to 8°C*.

Instruments

Multichem WBT is assayed and value assigned for ARCHITECT and Alinity systems.

Order Information		
- Please order through your local Abbott distributor -		
Multichem WBT (Alinity / ARCHITECT)	Config.	Part Code
Assayed Tri-Level for Architect	3 x 4 x 2mL	05P77-10
Assayed Tri-Level for Alinity	3 x 4 x 2mL	04S16-10

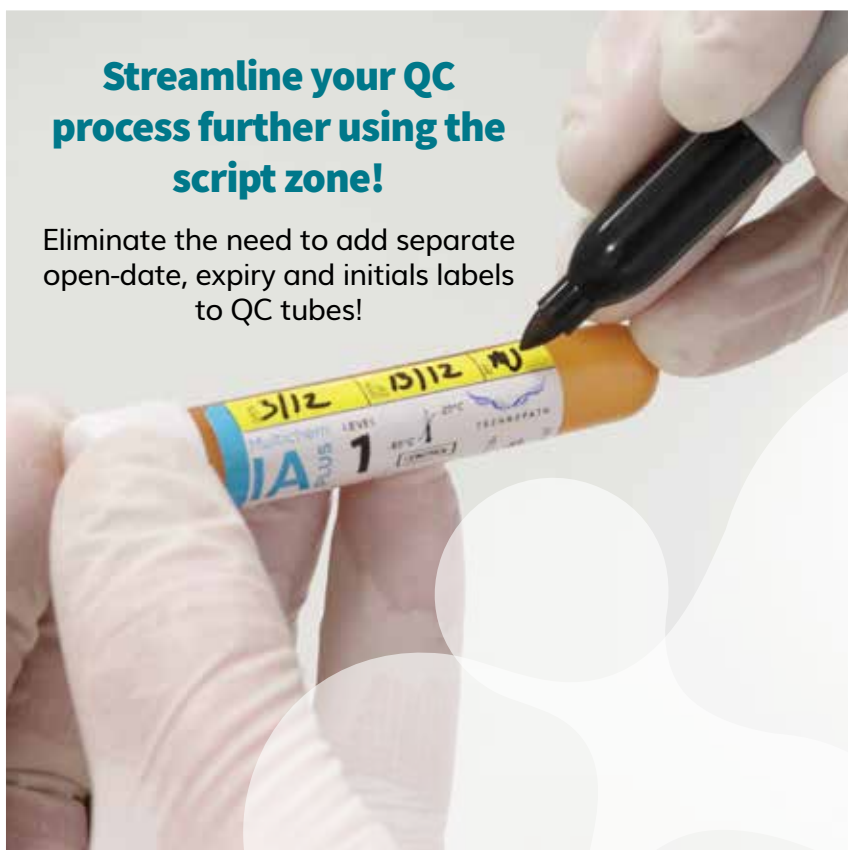
Analyte List
Cyclosporine
Folate*
Glucose*
Sirolimus
Tacrolimus



*Please refer to lot specific package inserts for stability and performance claims.

Streamline your QC process further using the script zone!

Eliminate the need to add separate open-date, expiry and initials labels to QC tubes!



Multichem® Independent Quality Controls for use on Roche cobas® systems

Targeted at Clinical decision points, Technopath's consolidated Multichem QC is value assigned for Roche **cobas®** analyzer systems. Consolidated controls increase laboratory efficiencies by reducing:

- Handling time
- Dead-volume waste
- Weight of waste consumables
- Storage requirements
- QC analysis time with IAMQC® Software.

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Analyte Guide* - Immunoassay & Chemistry

Multichem® QC available to order through Roche

Analytes

- Claimed Analytes
- Listed Analytes
- (No Claims on performance)

	Multichem S Plus	Multichem IA Plus	Multichem P	Multichem U
17 Hydroxyprogesterone		○		
A				
Acetaminophen	●	○		
Acid Phosphatase	●			
Adrenocorticotrophic Hormone (ACTH)		●		
Alanine Aminotransferase (ALT)	●			
Albumin	●		●	
Aldosterone		○		
Alkaline Phosphatase	●			
Alpha Fetoprotein (AFP)		●		
Alpha-hydroxybutyrate Dehydrogenase (α-HBDH)	●			
Alpha-1-acid Glycoprotein	●		●	
Alpha-1-antitrypsin (A1AT)	●		●	
Alpha 2-macroglobulin	○		○	
Amikacin	●	○		
Amylase, Pancreatic	●			
Amylase, Total	●			●
Androstenedione		●		
Angiotensin Converting Enzyme (ACE)	○		○	
Anti-CCP		○		
Anti-Streptococcal DNase (ADNase B)	○		○	
Antistreptolysin O (ASO)	●		○	
Anti-Thyroglobulin		●		
Antithrombin III	○		○	
Anti-thyroperoxidase (Anti-TPO)		●		
Apolipoprotein A1 (APO A1)	●		●	
Apolipoprotein B (APO B)	●		●	
Aspartate Aminotransferase (AST)	●			
B				
Beta-hydroxybutyrate Dehydrogenase	○			
Beta-2-Microglobulin	●		●	
Bile Acids	○			
Bilirubin, Direct	●			
Bilirubin, Indirect	○			
Bilirubin, Total	●			
BNP		○		
C				
C1 Inhibitor	○		○	
CA 125		●		
CA 15-3		●		
CA 19-9		●		
Caffeine	○	○		
Calcitonin		●		
Calcium	●			●
Calcium, Ionized	○			
Carbamazepine, Free		○		
Carbamazepine, Total	●	○		
Carbon Dioxide (CO2)	●			
Carcinogenic Embryonic Antigen (CEA)		●		
Ceruloplasmin	●		●	
CH50 (Total Hemolytic Complement)	○		○	
Chloramphenicol		○		
Chloride	●			●
Cholesterol, HDL	●			
Cholesterol, LDL	●			
Cholesterol, Total	●			
Cholinesterase (CHE)	●			
CK-MB	○	●		
Complement C3	●		●	
Complement C4	●		●	
Copper	○			
Cortisol	○	●		○
C-Peptide		●		
C-Reactive Protein (CRP)	●		●	
C-Reactive Protein (Ultra Sensitive)	●	○		
Creatinine	●			●
Creatine Kinase (CK)	●			
Cyclosporine		○		
Cystatin C	○		○	

Analyte Guide* - Immunoassay & Chemistry

Multichem® QC available to order through Roche

Analytes

- Claimed Analytes
- Listed Analytes
- (No Claims on performance)

	Multichem S Plus	Multichem IA Plus	Multichem P	Multichem U
D				
DHEA Sulfate		●		
Digoxin	●	●		
Disopyramide		○		
E				
EPO		○		
Estradiol		●		
Estril, Total		○		
Estril, Free		○		
Estrogen, Total		○		
Ethanol	●			
Ethosuximide		○		
F				
Ferritin	●	●	○	
Folate		●		
Follicle Stimulating Hormone (FSH)		●		
Fructosamine	●			
G				
Gamma Glutamyltransferase (GGT)	●			
Gentamicin	●	○		
Glucose	●			●
H				
Haptoglobin	●		●	
Hemopexin	○		○	
Homocysteine	●	○		
Human Chorionic Gonadotropin + β (hCG + β)		●		○
Human Chorionic Gonadotropin +β (hCG+β) STAT		●		
Human Growth Hormone (hGH)		●		
I				
Ibuprofen		○		
IgG1 Subclass	○		○	
IgG2 Subclass	○		○	
IgG3 Subclass	○		○	
IgG4 Subclass	○		○	
Immunoglobulin A (IgA)	●		●	
Immunoglobulin E (IgE)	○	●	○	
Immunoglobulin G (IgG)	●		●	
Immunoglobulin M (IgM)	●		●	
Insulin		●		
Insulin Like Growth Factor (IGF-1)		●		
Iron	●			
K				
Kappa Light Chain	●		○	
L				
Lactate (Lactic Acid)	●			
Lactate Dehydrogenase (LDH)	●			
Lambda Light Chain	●		○	
Luteinizing Hormone (LH)		●		
Lidocaine		○		
Lipase	●			
Lipoprotein (a)	●		○	
Lithium	●	○		
M				
Magnesium	●			●
Microalbumin				●
Myoglobin		●		
N				
N-Acetyl-Procaïnamide (NAPA)		○		
NT-proBNP		●		
O				
Osmolality	○			○
Ostase		○		
P				
Parathyroid Hormone (PTH)		●		
Parathyroid Hormone (PTH) (1-84)		●		
Phenobarbital	●	○		
Phenytoin, Free		○		
Phenytoin, Total	●	○		
Phosphate	●			●

*Please refer to lot specific package inserts for stability and performance claims.

**Coming Soon

Analyte Guide* - Immunoassay & Chemistry

Multichem® QC available to order through Roche

Analytes

- Claimed Analytes
- Listed Analytes
(No Claims on performance)

	Multichem S Plus	Multichem IA Plus	Multichem P	Multichem U
Phospholipids	○			
Phosphorous	●			
Potassium	●			●
Prealbumin	●		●	
Primidone		○		
Procainamide		○		
Procollagen NP type 1 (P1NP)		○		
Progesterone		●		
Prolactin		●		
Properdin Factor B	○		○	
Prostate Specific Antigen (PSA) Free		●		
Prostate Specific Antigen (PSA) Total		●		
Prostatic Acid Phosphatase	●			
Protein Electrophoresis	○			
Protein, Total	●		●	
Q				
Quinidine		○		
R				
Renin		○		
Retinol Binding Protein	○		○	
Rheumatoid Factor (RF)	●		●	
S				
Salicylate	●	○		
Sex Hormone Binding Globulin (SHBG)		●		
Sodium	●			●
Soluble Transferrin Receptor (sTfR)	●		●	
Specific Gravity				○
T				
Testosterone, Total		●		
Testosterone, Free		○		
Theophylline	●	○		
Thyroglobulin (Tg)		●		
Thyroid Stimulating Hormone (TSH)		●		
Thyroxine, Free (FT4)		●		
Thyroxine, Total (TT4)	○	●		
Thyroxine Binding Globulin (TBG)		○		
Tobramycin	●	○		
Total Iron Binding Capacity (TIBC)	○			
Transferrin	●		●	
Triglycerides	●			
Triiodothyronine, Free (FT3)		●		
Triiodothyronine, Total (TT3)	○	●		
Troponin I		●		
Troponin T		●		
T-Uptake		●		
U				
Unsaturated Iron-Binding Capacity (UIBC)	●			
Urea Nitrogen	●			●
Uric Acid	●			●
Urinary Protein (Urine Total Protein)				●
V				
Valproic Acid, Total	●	○		
Valproic Acid, Free		○		
Vancomycin	●	○		
Vitamin B12		●		
Vitamin D		●		
Z				
Zinc	○			

Analyte Guide - Serology

Multichem® QC available to order through Roche

Analytes

- Claimed Analytes
 - Listed Analytes
(No Claims on performance)
- ▲ Now taking enquiries

	Multichem ID-G	Multichem ID-HIV p24	Multichem ID-GNeg	Multichem ID-Group O	Multichem ID-HIV 2	Multichem ID-Chagas
A						
Anti-HBc IgG	●		●			
Anti-HCV IgG	●		●			
Anti-HIV 1 IgG	●		●			
Anti-HTLV I IgG ¹	●		●			
Anti-Treponema pallidum IgG	●		●			
C						
Chagas	●		●			▲
G						
Group O	●		●	▲		
H						
HBsAg	●		●			
HIV 1p24 Antigen		●	●			
HIV 2					▲	

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Clinical Chemistry Quality Control

for Roche cobas® systems

Multichem® S Plus

Load-and-Go

Test consolidation for serum chemistry and immunology QC in a liquid stable format for Roche cobas® systems



Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed Chemistry QC
- Facilitates tri-level utility for Cholesterol HDL & LDL, APO A1, and Apo B
- Assayed and value assigned for Roche cobas®
- Tri-level utility for immunoproteins

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C.

Instruments

Multichem S Plus, independent clinical chemistry QC is assayed and value assigned for Roche cobas® systems.

Order Information - Please order through Roche -

Multichem S Plus (cobas®)	Config.	Part Code
Assayed Single Level (Level 1)	12 x 4mL (48mL)	09339795190
Assayed Single Level (Level 2)	12 x 4mL (48mL)	09339809190
Assayed Single Level (Level 3)	12 x 4mL (48mL)	09339817190

Analyte List



ACE*	Chloride	Lambda Light Chain
Acetaminophen	Cholesterol, HDL	Lipase
Acid Phosphatase (Non Prostatic)	Cholesterol, LDL	Lipoprotein (a)
Acid Phosphatase (Non Prostatic)*	Cholesterol, Total	Lithium
Acid Phosphatase (Total)	Cholinesterase	Magnesium
ADNase B (Anti-Streptococcal DNase B)*	CKMB*	Osmolality*
Alanine Aminotransferase (ALT)	Complement C3	Phenobarbital
Albumin	Complement C4	Phenytoin
Alkaline Phosphatase (ALP)	Copper*	Phosphate
Alpha 2 Macroglobulin*	Cortisol*	Phospholipids*
Alpha-1 Acid Glycoprotein	Creatine Kinase (CK)	Potassium
Alpha-1 Antitrypsin	Creatinine	Prealbumin
Alpha-Hydroxybutyrate dehydrogenase	Cystatin C*	Properdin Factor B*
Amikacin	Dehydrogenase*	Protein Electrophoresis*
Amylase, Pancreatic	Digoxin	Retinol Binding Protein*
Amylase, Total	Ethanol	Rheumatoid Factors (RF)
Anti-streptolysin O (ASO)	Ferritin	Salicylate
Anti-thrombin III*	Fructosamine	Sodium
Apolipoprotein A1 (APO A1)	Gamma Glutamyltransferase (GGT)	Soluble Transferrin Receptor (sTfR)
Apolipoprotein B (APO B)	Gentamicin	Theophylline
Aspartate Aminotransferase (AST)	Glucose	Thyroxine (T4)*
Beta Hydroxybutyrate*	Haptoglobin	Tobramycin
Beta-2 Microglobulin	Hemopexin*	Total Iron Binding Capacity*
Bicarbonate (CO2)	Homocysteine	Total Protein
Bile acids*	IgE *	Transferrin
Bilirubin Direct	IgG1, Subclass*	Triglycerides
Bilirubin Indirect*	IgG2, Subclass*	Triiodothyronine*
Bilirubin Total	IgG3, Subclass*	Ultra sensitive CRP
C-Reactive Protein (CRP)	IgG4, Subclass*	Unsaturated Iron-Binding Capacity (UIBC)
C1 Inhibitor*	Immunoglobulin A (IgA)	Urea
Caffeine*	Immunoglobulin G (IgG)	Uric Acid
Calcium	Immunoglobulin M (IgM)	Valproic acid
Calcium Ionized*	Iron	Vancomycin
Carbamazepine	Kappa Light Chain	Zinc*
Ceruloplasmin	Lactate	
CH50 (Total hemolytic Complement)*	Lactate Dehydrogenase (LDH)	

*Please refer to lot specific package inserts for stability and performance claims.



Multichem[®] Immunology Quality Control

for Roche cobas[®] systems

Multichem[®] P

Load-and-Go

Test Consolidation for Serum elevated Immunoprotein QC in a Liquid Stable Format for Roche cobas[®] systems



Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed and value assigned for Roche cobas[®]
- Provides truly elevated values of specific proteins to control the analytical range
- Supplementary single-level immunoprotein control to complement Multichem S Plus
- Provides tri-level utility for RF when used in conjunction with Multichem S Plus

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 14 day open vial stability at 2°C to 8°C.

Instruments

Multichem S Plus, independent clinical chemistry QC is assayed and value assigned for Roche cobas[®] systems.

Order Information - Please order through Roche -		
Multichem P (cobas [®])	Config.	Part Code
Assayed Level P	12 x 4mL (48mL)	09339884190

Analyte List



Abumin ADNase B (Anti-Streptococcal DNase B)* Alpha-1 Acid Glycoprotein Alpha-1 Antitrypsin Alpha-2 Macroglobulin* Angiotensin Converting Enzyme* Antistreptolysin O (ASO)* Antithrombin III * Apolipoprotein A-1 (APO A1) Apolipoprotein B (APO B) Beta-2 Microglobulin C-Reactive Protein (CRP) C1 Inhibitor*	Ceruloplasmin CH50 (Total hemolytic Complement)* Complement C3 Complement C4 Cystatin C* Ferritin* Haptoglobin Hemopexin* IgE* IgG1, Subclass* IgG2, Subclass * IgG3, Subclass* IgG4, Subclass* Immunoglobulin A (IgA)	Immunoglobulin G (IgG) Immunoglobulin M (IgM) Kappa Light Chain* Lambda Light Chain* Lipoprotein (a)* Prealbumin Properdin Factor B* Retinol Binding Protein* Rheumatoid Factors (RF) Soluble Transferrin Receptor (sTfR) Total Protein Transferrin
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*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Urine Chemistry Quality Control

for Roche cobas® systems

Multichem® U

Load-and-Go

Test consolidation for urinary chemistry QC in a liquid stable format for Roche cobas® systems



Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed urine chemistry QC
- Bi-level utility
- Greater stability and performance for creatinine
- Assayed and value assigned for Roche cobas®
- Addition of Human-based microalbumin provides greater accuracy and performance

Specifications

- 24 month closed vial stability at 2°C to 8°C.
- 30 day open vial stability at 2°C to 8°C.

Instruments

Multichem U, independent urinary chemistry QC is assayed and value assigned for Roche cobas® systems.

Order Information - Please order through Roche -		
Multichem U (cobas®)	Config.	Part Code
Assayed Single Level (Level 1)	12 x 3mL (36mL)	09339868190
Assayed Single Level (Level 2)	12 x 3mL (36mL)	09339876190

Analyte List



Amylase
Calcium
Chloride
Cortisol*
Creatinine
Glucose

hCG*
Magnesium
Microalbumin
Osmolality*
Phosphate
Potassium

Sodium
Specific Gravity*
Total Protein Urine
Urea
Uric Acid



*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Immunoassay Quality Control

for Roche cobas® systems

Multichem® IA Plus

Load-and-Go

Test consolidation for serum chemistry and immunology QC in a liquid stable format for Roche **cobas®** systems



Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed Immunoassay QC
- Test consolidated immunoassay control includes general IA, cardiac markers and tumour markers
- Assayed and value assigned for Roche **cobas®**
- Tri-level utility

Specifications

- 36 month closed vial stability at -20°C to -80°C.
- 10 day open vial stability at 2°C to 8°C.

Instruments

Multichem IA Plus, independent clinical chemistry QC is assayed and value assigned for Roche **cobas®** systems.

Order Information - Please order through Roche -		
Multichem IA Plus (cobas®)	Config.	Part Code
Assayed Single Level (Level 1)	12 x 4mL (48mL)	09339825190
Assayed Single Level (Level 2)	12 x 4mL (48mL)	09339841190
Assayed Single Level (Level 3)	12 x 4mL (48mL)	09339850190

Analyte List



17-OH Progesterone*	Estriol, Total*	Procollagen NP Type 1*
Acetaminophen*	Estrogen, Total*	Progesterone
Adrenocorticotrophic hormone (ACTH)	Ethosuximide*	Prolactin
Aldosterone*	Ferritin	Prostate Specific Antigen, Free
Alpha-Fetoprotein (AFP)	Folate	Prostate Specific Antigen, Total
Amikacin*	Folicle Stimulating Hormone (FSH)	Quinidine*
Androstenedione	Gentamicin*	Renin*
Angiotensin*	Homocysteine*	Salicylate*
Anti-CCP*	Human Chorionic Gonadotropin +β (hCG+β)	Sex Hormone Binding Globulin (SHBG)
Anti-Thyroglobulin (Anti-Tg)	Human Chorionic Gonadotropin +β (hCG+β) STAT	T Uptake
Anti-Thyroperoxidase (Anti-TPO)	Human Growth Hormone (hGH)	Testosterone
BNP*	Ibuprofen*	Testosterone, Free*
C-Peptide	IGF-1	Theophylline*
CA 125	Immunoglobulin E (IgE)	Thyroglobulin (Tg)
CA 15-3	Insulin	Thyroid Stimulating Hormone (TSH)
CA 19-9	Leutinizing Hormone (LH)	Thyroxine Binding Globulin*
Caffeine*	Lidocaine*	Thyroxine, Free (FT4)
Calcitonin	Lithium*	Tobramycin*
Carbamazepine, Free*	Myoglobin	Total T3
Carbamazepine*	N-Acetyl procainamide*	Total T4
Carcinogenic Embryonic Antigen (CEA)	NT-pro BNP	Triiodothyronine, Free (FT3)
Chloramphenicol*	Ostase*	Troponin I
CK-MB	Parathyroid Hormone (PTH)	Troponin T
Cortisol	Parathyroid Hormone 1 - 84 (PTH)	Ultra-sensitive CRP*
Cyclosporine*	Phenobarbital*	Valproic Acid, Free*
DHEA-S	Phenytoin, Free*	Valproic Acid*
Digoxin	Phenytoin*	Vancomycin*
Disopyramide*	Primidone*	Vitamin B12
EPO*	Procainamide*	Vitamin D, Total
Estradiol		
Estriol, Free*		

*Please refer to lot specific package inserts for stability and performance claims.

Multichem® Infectious Disease Quality Control

for Roche cobas® systems

Multichem® ID-G

Load-and-Go

Multi-analyte infectious disease QC
for Roche cobas® systems



Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed and value assigned for Roche cobas® systems
- Suitable for HIV Duo assay with negative claim for HIV 1 p24 antigen

Specifications

- 24 month closed vial stability at 2°C to 8°C.
- 30 day open vial stability at 2°C to 8°C.

Instruments

Multichem ID-G, independent serology QC is assayed and value assigned for Roche cobas® systems.

Order Information - Please order through Roche -		
Multichem ID-G (cobas®)	Config.	Part Code
Positive QC	4 x 4mL (16mL)	09339892190

Analyte List

Anti-HBc IgG
Anti-HCV IgG

Anti-HIV 1 IgG
Anti-HTLV I IgG¹

Anti-Treponema pallidum IgG
HBsAg

Multichem® ID-HIV p24

Load-and-Go

Infectious disease QC
for Roche cobas® systems



Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed and value assigned for Roche cobas® systems
- Suitable for HIV Duo assay with negative claim for Anti-HIV 1 IgG

Specifications

- 24 month closed vial stability at 2°C to 8°C.
- 30 day open vial stability at 2°C to 8°C.

Instruments

Multichem ID-HIV p24, independent serology QC is assayed and value assigned for Roche cobas® systems.

Order Information - Please order through Roche -		
Multichem ID-HIV p24 (cobas®)	Config.	Part Code
Positive QC	4 x 4mL (16mL)	09915494190

Analyte List

HIV 1p24 Antigen

1. Anti-HTLV is not available in the USA.

Multichem® ID-G Neg

Load-and-Go

Multi-analyte infectious disease QC
for Roche **cobas**® systems



**Coming
Soon**

Features

- Human-based proprietary formulation
- Mimics performance of patient samples
- Direct load, liquid, for ease of use
- Assayed and value assigned for Roche **cobas**® systems

Specifications

- 36 month closed vial stability at 2°C to 8°C.
- 30 day open vial stability at 2°C to 8°C.

Instruments

Multichem ID-G neg, independent serology QC is assayed and value assigned for Roche **cobas**® systems.

Order Information - Please order through Roche -		
Multichem ID-G Neg (cobas®)	Config.	Part Code
Negative QC	4 x 4mL (16mL)	09339906190

Analyte List

Anti-HBc IgG
Anti-HCV IgG
Anti-HIV 1 IgG

Anti-HTLV I IgG
Anti-Treponema pallidum IgG
HBsAg

HIV 1 p24 Antigen





QC Data Management Solutions

Product	Description	Ordering
IAMQC Infinity	Next generation cloud based software, designed to meet your QC solution needs.	Contact our QC Software experts to find the 'best fit' QC software solution for your laboratory. technopath.qcsoftware@lgcgroup.com
IAMQC Peer	Real-time peer cloud-based comparison software	
IAMQC Transfer	Advanced connectivity solution for laboratories	

Analyse QC results in real-time

Designed to complement and support Technopath's Multichem® Quality Control (QC) product range, IAMQC Software provides Laboratory Managers and Technologists with a range of QC software tools to analyse their QC results in real-time.

IAMQC Software products allow users to automate, centralise, standardise and improve QC processes in a laboratory setting. The software satisfies the varying levels of QC requirements in individual laboratories and is easily applied to meet your quality goals.

Technopath's full suite of software products provide clinical laboratories with significant cost and time savings, whilst delivering higher confidence in analytical testing methods. IAMQC software products are practical, graphical, user-definable and easy to use.

IAMQC Software Products Help:

BENCH TECHNOLOGISTS:

- Spend less time on false positive QC flags.
- Concentrate on tests that require their attention.
- Spend less time trouble-shooting QC.
- Know how to react when the mean shifts.
- Assess the acceptability of new reagent lots and calibration events.
- Solve QC problems.
- QC target data automatically downloaded to the instrument*

LAB MANAGERS:

- Choose QC rules to maximise true rejects and minimise false rejects.
- Quickly see the tests that require their attention.
- Skim graphics to quickly review current or historical data by lab, department, instrument or test.
- Monitor performance in groups of laboratories.
- Review problem tests and QA activities in local and remote labs.

LAB OR HOSPITAL ADMINISTRATORS:

- Save money.
- Improve quality.
- Improve service.
- Review Administrative Summary Reports to ensure quality performance.

**Please contact with us for specific information for your diagnostic platform.*



Next Generation Solutions

IAMQC Infinity is designed as a QC data management solution that complements and supports Technopath Clinical Diagnostics Multichem® Quality Control (QC) product range, and provides Laboratory Managers and Technologists with a range of QC software tools to analyse their QC results in real-time. IAMQC Infinity is practical, graphical, and easy to use and provides laboratories with a centralised standardised approach to QC data management.

Laboratories today have many constraints in their daily process including labour, time, and budget. IAMQC Infinity helps to address these issues through a web-based system designed to manage QC data.

Providing access to advanced QC data management tools through a software-as-a-service platform removes the budgetary constraints that currently exist with products available today. Setup wizards save time for laboratories by providing all options available via drop-down lists and removing the need for manual entry by skilled laboratory technologists.

IAMQC Infinity allows users to automate, centralise, standardise and improve QC processes in a laboratory setting. Our combination of features in one system satisfies the varying levels of QC requirements in individual laboratories and is easily applied to meet different QC management expectations. IAMQC Infinity provides clinical laboratories with significant cost and time savings, whilst delivering higher confidence in analytical testing methods.

IAMQC® Infinity



Order Information

Contact our QC Software experts to find the best QC software solution for your laboratory.

technopath.qcsoftware@lgcgroup.com

IAMQC Infinity - At a Glance

Instant Comparison	✓
Centralised Data Management	✓
Cloud Based SaaS Model	✓
Compliance with Standards	✓
Westgard and/or user defined QC rules fully supported	✓
Focused Troubleshooting	✓
QC Monitor	✓
Configurable per Instrument and per Test	✓

Benefits - IAMQC Infinity

Design and select your exact QC system requirements	✓
Automate your QC process	✓
Consolidate all your QC Processes	✓
User-Friendly	✓
Centralised data management	✓
Automatic data submission	✓
Cloud based system	✓

IAMQC® Peer



Order Information

Contact our QC Software experts to find the best QC software solution for your laboratory.

technopath.qcsoftware@lgcgroup.com

IAMQC Peer - At a Glance

Reagent Lot Report	✓
Bias Report	✓
Exception Notes Report	✓
Group Coordinator Report	✓
Levey Jennings Report	✓
Measurement of Uncertainty	✓
Monthly Standard Report	✓
Sigma Metrics Report	✓
Youden Plot Report	✓

Benefits - IAMQC Peer

Real-time Peer data comparison	✓
Facilitates Standards approvals	✓
Centralised data management	✓
Automatic data submission	✓
Cloud based system	✓
User-Friendly	✓

What is an interlaboratory program?

In its simplest form, an interlaboratory program is a means for individual labs to compare their performance against other labs. The comparison will be against other labs using the same lot of quality control (QC) material on the same test and on the same instrument type. Interlaboratory programs offer various reports to show how your instruments in your lab compare against all others with these reports being generated at the end of the month once all data has been submitted. Some interlaboratory programs offer real-time peer comparison where the values displayed are based on all of the data that has been submitted up to the time of report generation or statistic viewing.

Why should you use an interlaboratory program?

Any laboratory that strives to achieve ISO accreditation should be part of an interlaboratory program: ISO 15189:2022(E).

This ISO standard specifies the quality management system requirements particular to medical laboratories and helps to set a level of performance and competency that labs should attain. The medical laboratory is an important part of patient care as all tests results come from the lab so ensuring your systems are in control is a vital part of this process. An interlaboratory program can provide comfort to the lab by demonstrating that your performance is in line with other labs. When your lab's performance is not in line with others, the interlaboratory program highlights this to you quickly.

How does IAMQC Peer help with participation in an interlaboratory program?

IAMQC Peer is a web based truly real time peer comparison system. Truly real-time means that all data submitted is included in the peer statistics at the time of report generation or when viewing the interactive peer statistics. IAMQC Peer shows labs each of their individual instruments performance and compares the accuracy and precision of the analytical processes to their peer group. The peer group will contain instruments of the same type from other laboratories using the same lot of QC material and using the same method for the test. The information from the reports and interactive peer statistics in IAMQC Peer can be extremely valuable, indicating the user's performance relative to their peer group as well as providing powerful troubleshooting tools when attempting to resolve potential problems. IAMQC Peer has multiple interfacing solutions to allow for the automation of data submission helping busy lab personnel to concentrate on the important activities of testing and result interpretation.

IAMQC Peer contains multiple reports, all of which provide key information to the lab in interpreting their instrument performance.

Reagent Lot Report

Automates the tracking and reporting of reagent lot-to-lot variation.

Group Coordinator Report

A test-by-test listing of statistics of the laboratory and its peer groups for up to 3 levels of control.

Levey-Jennings Report

The LJ report displays individual QC values per analyte for the selected month. It also indicates when a reagent lot was changed.

Exceptions Report

This report details the lab's tests and analytical methods which differ in performance from its peer group using SDI and CVI.

Monthly Summary Report

A rolling twelve-month window of summary statistics,



including monthly mean for each test and level, is displayed along with peer group values.

Youden Plot

The Youden plot visualizes both bias and imprecision graphically and can be used to evaluate systematic and/or random error.

Six Sigma

The six sigma report automatically calculates the lab's sigma score based on the Total Allowable Error values entered.

Measurement of Uncertainty

The system calculates the MoU value automatically based on the time-range selected for the lot in question along with the Standard Error of the Mean (SEM) value or the running SD of each test for the time period selected.

Bias Report

The bias report contains all the information in the Group Coordinator report plus a bias score against the cumulative peer mean for each test and is generated in Microsoft Excel format.

The most advanced connectivity solution available for laboratory instrumentation.

IAMQC® Transfer

IAMQC Transfer is a connectivity device that can communicate with Laboratory Information Systems (LIS), Middleware, automated instrumentation and Point Of Care platforms.

Through the use of our proprietary drivers and a single board computer device, IAMQC Transfer processes and communicates data from your system to IAMQC, cloud-based software.

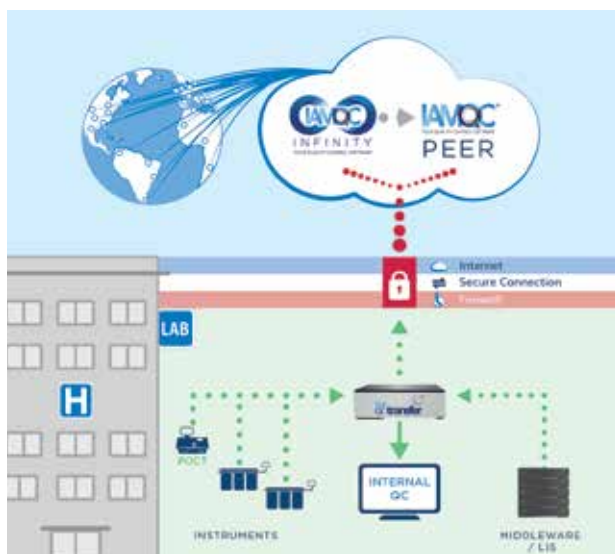
IAMQC Transfer features a plug-and-play set up, combined with multiple connectivity options, ensuring an un-matched level of flexibility – all within an incredibly small, seamless enclosure.



Order Information

Contact our QC Software experts to find the best QC software solution for your laboratory.

technopath.qcsoftware@lgcgroup.com



IAMQC Transfer - At a Glance

Simple Set Up	✓
Secure System	✓
Future Proof System	✓
Automatic QC Data Upload	✓

Benefits - IAMQC Transfer

Instant QC data comparison	✓
Facilitates Standards approvals	✓
Centralised data management	✓
Automatic data submission	✓
User-Friendly	✓



CLINICAL
DIAGNOSTICS

Technopath is part of LGC Clinical Diagnostics

LGC Clinical Diagnostics is a leading provider of Quality Measurement Tools, biological materials, and reagents for the IVD and extended life science industry.

By bringing together six industry-leading companies, our combined and ever-growing capabilities mean we are better positioned to support the needs of the clinical diagnostics industry.

Together, we are working to enable laboratories to deliver patient results with confidence.

LGCclinicalDiagnostics.com



TECHNOPATH
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