



Quality controls

Do more with Thermo Scientific quality control solutions

Thermo Scientific MAS Quality Controls

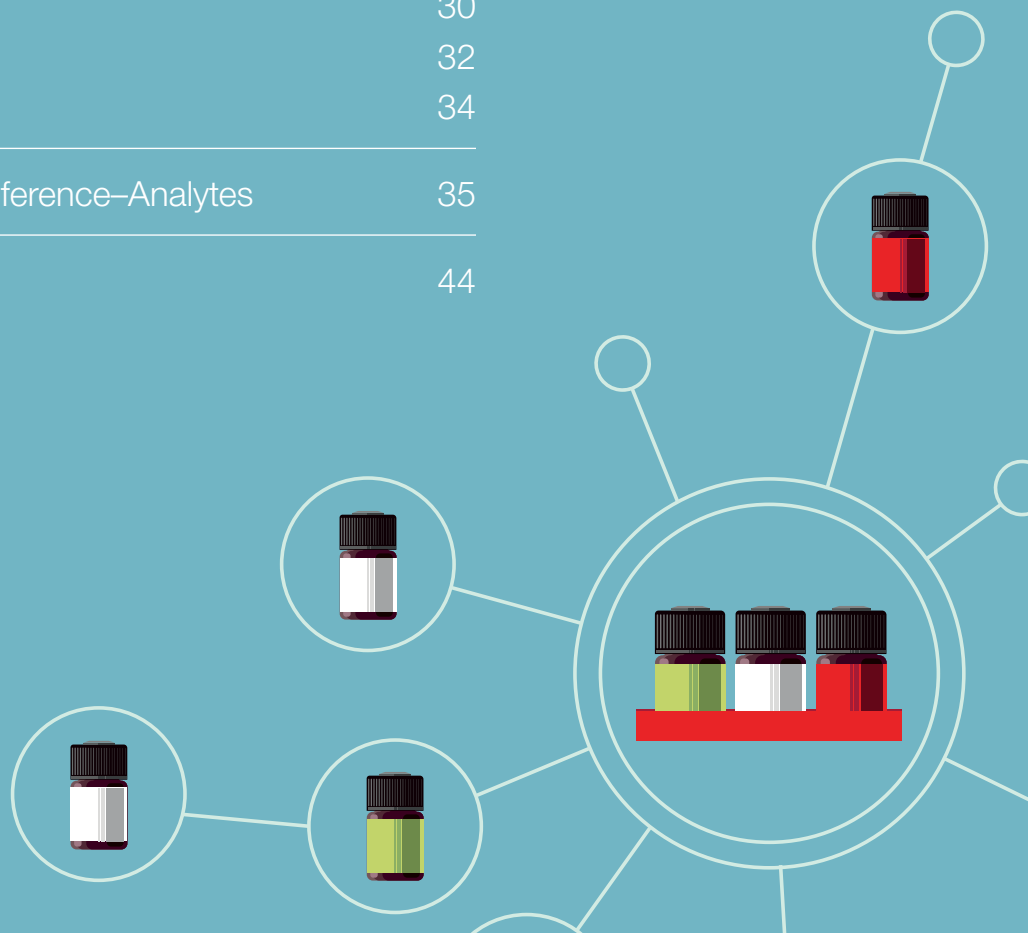
Thermo Scientific LabLink xL
Quality Control Software

Thermo Scientific AcroMetrix Molecular
Quality Controls and Standards

International Catalog

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Ensuring precise and efficient quality control

The **Thermo Scientific™ MAS™ Quality Controls** portfolio offers unique tools to address the challenges laboratories commonly face. From rising costs to limited floor and storage space to the number of steps and controls your processes require to the importance of validation and quality—we understand your need for leaner, faster solutions.

The MAS quality controls portfolio provides a range of solutions designed to help you optimize your QC management without sacrificing performance.



**30 days
open vial stability***
Built for *your* timeline



**Ready to use
straight from the fridge**
No waiting for reconstitution



**3 to 5 years
shelf life***
Faster lot-to-lot verification



**Versatile
and complete**
Assayed for the most common platforms

Why use third-party controls?

Third-party controls Independent external controls	Kit controls Supplier controls, internal controls, dependent controls
✓ Bias-free performance monitoring → not optimized for specific reagents or analyzers	⊖ Developed for specific reagents or analyzers
✓ Matrix of human origin → best mimics the behavior of a patient sample	⊖ Produced from the same raw material as the calibrators → less sensitive to small performance variations
✓ Minimal variations with new lots of QC	⊖ Variations with each new batch of reagents
✓ Long expiration and availability of the same batch of third-party QC (years)	⊖ A new reagent batch = a new control batch
✓ Extensive value assignment: cross-platform monitoring	⊖ No value assignment except those of the reagent supplier

*Refer to product package insert for details regarding claims and stability.

Thermo Scientific MAS

Omni Consolidated Controls



MAS Omni•CORE

Thermo Scientific™ MAS™ Omni•CORE™ Controls consolidate general chemistry and serum protein QC processing into a single product, offering three distinct levels.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
OCR-101	1	6 x 5 mL assayed	36 month shelf life @ -25°C to -15°C from date of manufacture	Liquid human serum
OCR-202	2		30 days open-vial @ 2°C to 8°C	
OCR-303	3		(Bilirubin is 15 days open-vial @ 2°C to 8°C)	

Analytes

General Chemistry	TDM/Toxicology Tests	Anemia/Iron Deficiency Tests	Thyroid Function Tests	Endocrine/Hormone Tests	Allergy Tests	Serum Proteins/Serology Tests
Albumin	Acetaminophen	Ferritin	Thyroxine, Total (TT4)	Cortisol	Immunoglobulin E (IgE)	Alpha-1-Acid Glycoprotein (AAG)*
Alkaline Phosphatase (ALT/GPT)	Amikacin	Iron	Thyroid-Stimulating Hormone (TSH)			Alpha-1-Antitrypsin (AAT)*
Alanine Aminotransferase (ALT)	Caffeine	Iron Binding Capacity (IBC)	Thyroid Uptake (T-Uptake)			Alpha-2-Macroglobulin (AMG)*
Amylase	Carbamazepine	Iron Binding Capacity, Total (TIBC)				Antistreptolysin O (ASO)
Amylase (Pancreatic)*	Digoxin	Iron Binding Capacity, Unsaturated (UIBC)				Apolipoprotein A1 (APO A)*
Aspartate Aminotransferase (AST/GOT)	Disopyramide	Transferrin*				Apolipoprotein B (APO B)*
Bile Acids*	Ethanol					Beta-2-Microglobulin
Bilirubin, Conjugated	Ethosuximide					C3 Complement*
Bilirubin, Direct (DBIL)	Gentamicin					C4 Complement*
Bilirubin, Neonatal	Lidocaine					Ceruloplasmin (CER)*
Bilirubin, Total (TBIL)	Lithium					C-Reactive Protein (CRP)
Bilirubin, Unconjugated	Methotrexate					Haptoglobin*
Blood Urea Nitrogen (BUN)						Immunoglobulin A (IgA)*
Calcium						Immunoglobulin G (IgG)*
Carbon Dioxide (CO ₂)						Immunoglobulin M (IgM)
Chloride						Lipoprotein A (Lp(a))*
Cholesterol						Prealbumin
Cholesterol, HDL						Rheumatoid Factor (RF)
Cholesterol, LDL						
Copper*						
Creatine Kinase (CK)						
Creatinine						
Gamma-Glutamyl Transferase (GGT)						
Glucose						
Lactate Dehydrogenase (LDH)						

*These constituent levels have not been adjusted but are at levels found in the source material used in preparation of the controls. No claim is made for expected values of these constituents. Refer to package insert for specific analyte, stability claims, and limitations of procedures. Shelf life starts from the date of manufacture. Availability of products in each country depends on local regulatory marketing authorization status.



MAS Omni•CARDIO

Thermo Scientific™ MAS™ Omni•CARDIO™ Controls consolidate a comprehensive cardiac marker panel with the new generation of STAT analytes including D-Dimer, hCG, Myeloperoxidase and Procalcitonin.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
OCRD-UL	Ultra Low			
OCRD-L	Low			
OCRD-101	1	6 x 3 mL assayed	36 months @ -25°C to -15°C from date of manufacture	Liquid human serum
OCRD-202	2		15 days @ 2°C to 8°C (for BNP-32, CK-MB, D-Dimer, Digitoxin, hCG, hsCRP, Myeloperoxidase, Procalcitonin, Total CK, Troponin-I and Troponin-T)	
OCRD-303	3		10 days @ 2°C to 8°C (for Myoglobin and NT-proBNP)	
OCRD-MP	Tri-Level, Multi-Pack (2 vials each level 1/2/3)			

Analytes

Brain Natriuretic Peptide-32 (BNP-32)	Human Chorionic Gonadotropin (hCG)	N-Terminal Brain Natriuretic Peptide (NT-proBNP)
Copeptin*	Beta Human Chorionic Gonadotropin (Beta-HCG)	Procalcitonin (PCT)
Creatine Kinase MB (CK-MB)	High Sensitivity C-Reactive Protein (hsCRP)	Total Creatinine Kinase (Total CK)
D-Dimer	Myeloperoxidase (MPO)	Troponin I
Digitoxin	Myoglobin	Troponin T

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Thermo Scientific MAS

Omni Consolidated Controls

MAS Omni•IMMUNE

Thermo Scientific™ MAS™ Omni•IMMUNE™ Controls provide consolidation for routine immunoassay, tumor marker and specialty immunoassay QC processing into a single product, offering three distinct levels.



48 months
lot shelf life*

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
OIM-101	1	6 x 5 mL assayed	48 month shelf life @ -25°C to -15°C from date of manufacture	Liquid human serum
OIM-202	2			
OIM-303	3		30 days open-vial @ 2°C to 8°C	

*Product with 4 year shelf life not available in all countries due to product registration.

MAS Omni•IMMUNE PRO

Thermo Scientific™ MAS™ Omni•IMMUNE PRO™ Controls provide Anti-Thyroglobulin (Anti-Tg), Anti-Thyroid Peroxidase (Anti-TPO) and Sex Hormone Binding Globulin (SHBG) in addition to the same analyte panel provided in the MAS Omni•IMMUNE product.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
OPRO-101	1	6 x 5 mL assayed	48 month shelf life @ -25°C to -15°C from date of manufacture	Liquid human serum
OPRO-202	2			
OPRO-303	3		30 days open-vial @ 2°C to 8°C	

*Product with 4 year shelf life not available in all countries due to product registration.

Analytes

New Specialty Tests	Digoxin	Thyroglobulin	Leuteinizing Hormone (LH)
25-Hydroxy Vitamin D	Disopyramide	Thyroid-Stimulating Hormone (TSH)	Progesterone
Anti-Thyroglobulin (Anti-Tg) (PRO)	Ethosuximide	Thyroid Uptake (T-Uptake)	Prolactin
Anti-Thyroid Peroxidase (Anti-TPO) (PRO)	Gentamicin		Testosterone
C-Peptide	Lidocaine	Tumor Marker Tests	
Estriol, Free	Lithium	Adrenocorticotrophic Hormone (ACTH)	Endocrine/Hormone Tests
Fructosamine*	N-acetylprocainamide (NAPA)	Beta-2-microglobulin	Aldosterone
IGF-1 (insulin-like growth factor 1)	Phenobarbital	CA 125	Calcitonin*
Phenytoin, Free	Phenytoin	CA 15-3	Cortisol
Pregnancy Associated Plasma Protein A (PAPP-A)*	Primidone	CA 19-9	DHEA Sulfate
Procalcitonin (PCT)	Procainamide	Carcinoembryonic Antigen (CEA)	Growth Hormone
Parathyroid Hormone (PTH)	Quinidine	Gastrin	Insulin*
Sex Hormone-Binding Globulin (SHBG) (PRO)	Salicylate	Prostatic Acid Phosphatase (PAP)	Cardiac Tests
Thyroxine-Binding Globulin (TBG)	Theophylline	Prostate Specific Antigen, Free (FPSA)	Homocysteine
Valproic Acid, Free	Tobramycin	Prostate Specific Antigen, Total (TPSA)	
	Tricyclic Antidepressants (TCA)	Reproductive/Fertility Tests	Anemia/Iron Deficiency Tests
TDM/Toxicology Tests	Valproic Acid	17-alpha-OH-progesterone	Ferritin
Acetaminophen	Vancomycin	Alpha-fetoprotein	Folate (vitamin B9)
Amikacin		Estradiol	Vitamin B12
Benzodiazepine (Nordiazepam)	Thyroid Function Tests	Follicle Stimulating Hormone (FSH)	
Carbamazepine	Triiodothyronine, Free (FT3)	Human Chorionic Gonadotropin (hCG)	Allergy Tests
	Triiodothyronine, Total (TT3)	Beta Human Chorionic Gonadotropin (β-hCG)	Immunoglobulin E (IgE)
	Thyroxine, Free (FT4)		
	Thyroxine, Total (TT4)		

Dropper Tips - Pkg 100 - MAS P/N 286-606

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Streamline your workflow

Consolidate multiple QC products

8 competitor controls

to

3 Omni controls

Immunoassay Control

Specialty IA Control

Tumor Marker Control

Omni•IMMUNE or
Omni•IMMUNE PRO



Cardiac Marker Control

D-Dimer Control

Omni•CARDIO



Chemistry Control

Immunology Control

Rheumatoid Factor Control

Omni•CORE



Thermo Scientific MAS

Serum Chemistry Controls



MAS chemTRAK•H

Thermo Scientific™ MAS™ chemTRAK™•H Controls are comprehensive multi-analyte controls, designed to monitor general chemistry and TDM methods. Available in an assayed or unassayed format. Assayed values are available for most major platforms.

Part Number	Level	Bottles & Size	Storage & Stability*	Matrix
CHA-1	1	6 x 5 mL assayed	30 month shelf life @ -25°C to -15°C from date of manufacture	Liquid human serum
CHA-2	2			
CHA-3	3			
CHU-1	1	10 x 15 mL unassayed	14 days open-vial @ 2°C to 8°C; unassayed 7 days open-vial @ 2°C to 8°C; assayed	
CHU-2	2			
CHU-3	3			

Analytes

Acetaminophen	Carbon Dioxide (CO ₂)	Iron Binding Capacity, Total (TIBC)	Pseudocholinesterase
Alanine Aminotransferase (ALT)	Chloride	Iron Binding Capacity, Unsaturated (UIBC)*	Quinidine
Albumin	Cholesterol	Lactate Dehydrogenase (LD)	Salicylate
Alkaline Phosphatase	Creatine Kinase (CK)	Lactic Acid	Sodium
Amikacin	Creatinine	LDL Cholesterol	Theophylline
Amylase	Digoxin	Lidocaine	Thyroid Stimulating Hormone
Amylase (Pancreatic)	Disopyramide	Lipase	Thyroid Uptake (T-Uptake)
Apolipoprotein A	Ethanol	Lipoprotein (a)	Thyroxine, Free (FT4)*
Apolipoprotein B	Ethosuximide	Lithium	Thyroxine, Total (TT4)
Aspartate Aminotransferase (AST)	Ferritin*	Magnesium	Tobramycin
Bilirubin, Unconjugated	Gamma-Glutamyl Transferase	Methodretaxate	Total Protein
Bilirubin, Conjugated	Gentamicin	N-acetylprocainamide (NAPA)	Transferrin*
Bilirubin, Direct (DBIL)	GLDH*	Osmolality	Tricyclic Antidepressants
Bilirubin, Neonatal	Glucose	Phenobarbital	Triglycerides
Bilirubin, Total (TBIL)	Haptoglobin*	Phenytoin	Triiodothyronine, Free (FT3)*
Blood Urea Nitrogen (BUN)	HBDH*	Phosphorus	Triiodothyronine, Total (TT3)*
C3 Complement*	HDL Cholesterol	Potassium	Uric Acid
C4 Complement*	Immunoglobulin A (IgA)*	Prealbumin	Valproic Acid
Caffeine	Immunoglobulin G (IgG)*	Primidone	Vancomycin
Calcium	Immunoglobulin M (IgM)*	Procainamide	
Carbamazepine	Iron		

Dropper Tips - Pkg 100 - MAS P/N 286-606

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MAS Alcohol/Ammonia

An assayed, bi-level control for monitoring ethanol and ammonia levels in serum. Normal Ammonia values in Level 1.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
AAC-MP	Bi-level, Multi-Pack	3 bottles per level, 6 x 3.5 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum

Analytes

Ammonia
Ethanol

MAS Bilirubin

This assayed, tri-level control has been designed to monitor the performance of total, direct, conjugated, unconjugated and neonatal bilirubin. An elevated Bilirubin is included in level 3 for neonatal applications.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
BC101	1	6 x 5 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 14 days open-vial @ 2°C to 8°C when stored in the dark	Liquid bovine serum
BC102	2			
BC103	3			

Analytes

Bilirubin, Conjugated
Bilirubin, Direct (DBIL)
Bilirubin, Neonatal
Bilirubin, Total (TBIL)
Bilirubin, Unconjugated

Dropper Tips - Pkg 100 - MAS P/N 286-606

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Thermo Scientific MAS

Urine Chemistry Controls



MAS UA Control

A bi-level control with improved room temperature storage capability. This urine control was designed for monitoring urine dipstick and microscopic components.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
UAB-115	1 (normal)	6 x 15 mL	24 month shelf life @ 2°C to 8°C from date of manufacture	Liquid human urine
UAB-160		4 x 60 mL		
UAB-215	2 (abnormal)	6 x 15 mL	Open-vial: Refrigerated 3 months @ 2°C to 8°C	
UAB-260		4 x 60 mL		
UAB-MP	Bi-level, Multi-Pack	6 x 15 mL	Room temperature 6 weeks @ 18°C to 25°C	

Analytes

Bilirubin	Nitrite
Blood	Osmolality
Creatinine	pH
Crystals	Potassium
Glucose	Protein
Human Chorionic Gonadotropin (hCG)	Red Blood Cells
Ketones	Sodium
Leukocyte Esterase	Specific Gravity
Microalbumin	Urobilinogen
	White Blood Cells

MAS UA DipTube

MAS UA product packed into convenient dip tubes to simplify manual testing of urinalysis strips.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
UAT-MP	Bi-level, Multi-Pack	5 tubes per level, 10 x 12 mL	24 month shelf life @ 2°C to 8°C from date of manufacture Open-vial: Refrigerated 8 weeks or 20 dips @ 2°C to 8°C Room temp 2 weeks or 10 dips @ 18°C to 30°C	Liquid human urine

Analytes

Bilirubin	Nitrite
Blood	Osmolality
Creatinine	pH
Crystals	Potassium
Glucose	Protein
Human Chorionic Gonadotropin (hCG)	Red Blood Cells
Ketones	Sodium
Leukocyte Esterase	Specific Gravity
Microalbumin	Urobilinogen
	White Blood Cells

MAS Urinalysis

A bi-level urine control designed for monitoring urine dipstick and microscopic components.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
024222	1 (abnormal)	6 x 15 mL	12 month shelf life @ 2°C to 8°C from date of manufacture	Liquid human urine
024225		4 x 60 mL		
024224	3 (normal)	6 x 15 mL	18 month shelf life @ 2°C to 8°C from date of manufacture	
024227		4 x 60 mL		

Analytes

Bilirubin	Nitrite
Blood	Osmolality
Creatinine	pH
Crystals	Potassium
Glucose	Protein
Human Chorionic Gonadotropin (hCG)	Red Blood Cells
Ketones	Sodium
Leukocyte Esterase	Specific Gravity
Microalbumin	Urobilinogen
	White Blood Cells

Dropper Tips - Pkg 100 - MAS P/N 286-606

Refer to package insert for specific analyte, stability claims, and limitations of procedures. Shelf life starts from the date of manufacture. Availability of products in each country depends on local regulatory marketing authorization status.



Sentry Urine Dipstick Control*

Ideal for use outside the clinical laboratory where refrigerated storage isn't always available. The Thermo Scientific™ MAS™ Sentry Urine Dipstick Control offers 12 months of room temperature stability for an immediate, ready-to-use urinalysis strip control. Suitable for Multistix, Chemstrips, Diascreen and other urinalysis strips as well as automated strip readers. Supplied in two levels, normal and abnormal.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
URN5005	Bi-level, Multi-Pack	2 bottles per level, 4 x 25 mL	18 month shelf life @ 2°C to 8°C from date of manufacture 12 month open-vial @ room temperature	Liquid synthetic

Analytes

Bilirubin	Microalbumin
Blood	Nitrite
Glucose	pH
Human Chorionic Gonadotropin (hCG)	Protein
Leukocytes	Specific Gravity
Ketones	Urobilinogen

MAS UrichemTRAK

Thermo Scientific™ MAS™ UrichemTRAK™ Controls are designed to quantitatively monitor the most commonly tested urine chemistry analytes. The non-azide formulation will not interfere with ISEs.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
UR11001	1	6 x 15 mL	24 month shelf life @ 2°C to 8°C from date of manufacture	Liquid human urine
UR22002	2			
UR-MP	Bi-level, Multi-Pack			

Analytes

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

Dropper Tips - Pkg 100 - MAS P/N 286-606

*Product is not CE marked and is available for sale outside the US.

Refer to package insert for specific analyte, stability claims, and limitations of procedures. Shelf life starts from the date of manufacture. Availability of products in each country depends on local regulatory marketing authorization status.

Thermo Scientific MAS

Immunoassay Controls



MAS Liquimmune

Thermo Scientific™ MAS™ Liquimmune™ Immunoassay Controls are multi-analyte controls that provide coverage of fertility, thyroid, iron deficiency, endocrine and allergy parameters. Assayed values are provided for major instrument systems.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
LIG-101	1	6 x 5 mL	60 month shelf life @ -25°C to -15°C from date of manufacture 90 days unopened @ 2°C to 8°C 30 days open-vial @ 2°C to 8°C	Liquid human serum
LIG-202	2			
LIG-303	3			

Analytes

17-a-OH-Progesterone	Ethosuximide	Lidocaine	Testosterone
Acetaminophen	Ferritin	Lithium	Theophylline
Aldosterone	Folate	Luteinizing Hormone (LH)	Thyroglobulin
Alpha-Fetoprotein (AFP)	Follicle Stimulating Hormone (FSH)	N-acetylprocainamide (NAPA)	Thyroid Stimulating Hormone (TSH)
Amikacin	Gentamicin	Phenobarbital	Thyroid Uptake (T-Uptake)
Carbamazepine	Homocysteine	Phenytoin	Thyroxine, Free (FT4)
Carcinoembryonic Antigen (CEA)	Human Chorionic Gonadotropin (beta-hCG)	Primidone	Thyroxine, Total (TT4)
CK-MB (activity)	Human Chorionic Gonadotropin (hCG)	Procainamide	Tobramycin
CK-MB (mass)	Human Growth Hormone	Progesterone	Tricyclic Antidepressants
Cortisol	Immunoglobulin A (IgA)*	Prolactin	Triiodothyronine, Free (FT3)
DHEA-Sulfate	Immunoglobulin E (IgE)	Prostate Specific Antigen, Total (TPSA)	Triiodothyronine, Total (TT3)
Digoxin	Immunoglobulin G (IgG)*	Prostate Specific Antigen, Free (FPSA)	Valproic Acid
Disopyramide	Immunoglobulin M (IgM)*	Quinidine	Vancomycin
Estradiol	Insulin	Salicylate	Vitamin B12

Dropper Tips - Pkg 100 - MAS P/N 286-606

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MAS PAR TDM

The Thermo Scientific™ MAS™ PAR™ TDM Control is designed for therapeutic drugs and common immunoassay test procedures on most automated instruments.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
PTD1-1001	1	6 x 5 mL	36 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid bovine serum
PTD2-2002	2			
PTD3-3003	3			

Analytes

Acetaminophen	Ethanol	Phenobarbital	Thyroid Stimulating Hormone (TSH)
Amikacin	Ethosuximide	Phenytoin	Thyroxine, Total (TT4)
Caffeine	Gentamicin	Primidone	Tobramycin
Carbamazepine	Lidocaine	Procainamide	Tricyclic Antidepressants
Digoxin	Lithium	Quinidine	Triiodothyronine, Total (TT3)
Disopyramide	Methotrexate	Salicylate	Valproic Acid
Estriol	N-acetylprocainamide (NAPA)	Theophylline	Vancomycin

MAS T-Marker

This multi-analyte control is designed to monitor performance of various cancer antigen tests.



59 months
lot shelf life*

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
TUM-101	1	6 x 3 mL	59 month shelf life @ -25°C to -15°C from date of manufacture 90 days unopened @ 2°C to 8°C 30 days open-vial @ 2°C to 8°C	Liquid human serum
TUM-202	2			
TUM-303	3			

*Product with 59 month shelf life, not available in all countries due to product registration.

Analytes

ACTH*	CA 19-9	Ferritin	Prostate Specific Antigen, Total (TPSA)
Aldosterone	CA 27-29	Gastrin	Prostate Specific Antigen, Free (FPSA)
Alpha-Fetoprotein (AFP)	CA 72-4	Human Chorionic Gonadotropin (hCG)	Prostatic Acid Phosphatase (PAP)
Beta Human Chorionic Gonadotropin (beta-hCG)	Calcitonin	Insulin	Thyroglobulin
Beta-2-Microglobulin	Carcinoembryonic Antigen (CEA)	NSE*	
CA 125	Cortisol	Prolactin	
CA 15-3	CyFRA 21-1*		
	Estradiol		

Dropper Tips - Pkg 100 - MAS P/N 286-606

*Not cleared by FDA. These constituent levels have not been adjusted but are at levels found in the source material used in preparation of the controls. No claim is made for expected values of these constituents. Refer to package insert for specific analyte, stability claims, and limitations of procedures. Shelf life starts from the date of manufacture. Availability of products in each country depends on local regulatory marketing authorization status.

Thermo Scientific MAS

Cardiac & Diabetes Controls



MAS CardiImmune•XL

The Thermo Scientific™ MAS™ CardiImmune™•XL Multi-Analyte Control is designed to monitor serum cardiac marker test methods.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
CAI-XLL	L	6 x 3 mL	36 month shelf life @ -25°C to -15°C from date of manufacture	Liquid human serum
CAI-XL1	1		30 days open-vial @ 2°C to 8°C (for hsCRP, Digitoxin, Troponin I and Homocysteine)	
CAI-XL2	2			
CAI-XL3	3			
CAI-XL4	Tri-level, Multi-Pack	15 days open-vial @ 2°C to 8°C for BNP 32, Myoglobin (when a dropper tip is used), NT-proBNP, Troponin T, CK-MB		

Analytes

BNP 32
CK-MB
Digitoxin
Homocysteine
C-Reactive Protein high sensitivity (hs-CRP)
Myoglobin
NT-pro BNP
Troponin I
Troponin T

MAS CardiImmune Ultra Low

A single analyte control designed to challenge the next generation high sensitivity Troponin assays.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
CAI-UL	UL	6 x 3 mL	36 month shelf life @ -25°C to -15°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum

Analytes

Troponin I

Dropper Tips - Pkg 100 - MAS P/N 286-606

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MAS Diabetes

This liquid assayed diabetes control is a bi-level control designed to monitor hemoglobin A1c methods.

Analytes

Hemoglobin A1c (HbA1c)

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
DBCL-MP	Bi-level, Multi-Pack	3 bottles per level, 6 x 1 mL	24 month shelf life @ -25°C to -15°C from date of manufacture 60 days unopened @ 2°C to 8°C 30 days open-vial @ 2°C to 8°C	Liquid human whole blood

MAS CSF

This control is designed to monitor the performance of quantitative and manual chemical analysis of human cerebrospinal fluid. Multiple oligoclonal bands are present in Level 2.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
CSF-MP	Bi-level, Multi-Pack	3 bottles per level, 6 x 3.5 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum

Analytes

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



Thermo Scientific MAS

Immunology & Protein Controls



MAS Immunology

This multi-analyte immunology control is designed to monitor the performance of various serum protein test procedures including Antistreptolysin O, C-Reactive Protein, Prealbumin and Rheumatoid Factor.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
IC-101	1	6 x 3 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum
IC-202	2			
IC-303	3			

Analytes

Albumin	Apolipoprotein B*	Haptoglobin	Prealbumin
Alpha-1-Acid-Glycoprotein	Beta-2-Microglobulin	Immunoglobulin A (IgA)	Properdin Factor B
Alpha-1-Antitrypsin	C-Reactive Protein (CRP)	Immunoglobulin E (IgE)	Rheumatoid Factor (RF)
Alpha-2-Macroglobulin	C3 Complement	Immunoglobulin G (IgG)	Total Protein
Antistreptolysin O	C4 Complement	Immunoglobulin M (IgM)	Transferrin
Antithrombin III	Ceruloplasmin	Kappa Light Chain	
Apolipoprotein A-1*	Ferritin*	Lambda Light Chain	

MAS Immunology Advanced

This multi-constituent immunology liquid assayed control is designed for monitoring assay conditions in many immunology determinations, including cystatin C, Anti-cyclic citrullinated peptide (anti-CCP), and transferrin receptor. It is assayed for major instrument systems and is ready to use, requiring no additional preparation.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
ICA-101	1	6 x 3 mL	24 month shelf life @ 2 to 8°C from date of manufacture 30 days open-vial @ 2 to 8°C	Liquid Human Serum
ICA-202	2			
ICA-303	3			

Analytes

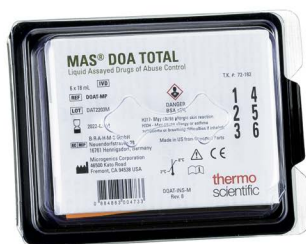
Albumin	Apolipoprotein A-1*	Cystatin C	Lambda Light Chain
Alpha-1-Acid-Glycoprotein	Apolipoprotein B*	Ferritin*	Prealbumin
Alpha-1-Antitrypsin	Beta-2-Microglobulin	Haptoglobin	Properdin Factor B
Alpha-2-Macroglobulin	C-Reactive Protein (CRP)	Immunoglobulin A (IgA)	Rheumatoid Factor (RF)
Anti-Cyclic Citrullinated Peptide (anti-CCP)	C3 Complement	Immunoglobulin E (IgE)	Total Protein
Antistreptolysin O	C4 Complement	Immunoglobulin G (IgG)	Transferrin
Antithrombin III	Ceruloplasmin	Immunoglobulin M (IgM)	Transferrin receptor (sTFR)
		Kappa Light Chain	

Dropper Tips - Pkg 100 - MAS P/N 286-606

*These constituent levels have not been adjusted but are at levels found in the source material used in preparation of the controls. No claim is made for expected values of these constituents. Refer to package insert for specific analyte, stability claims, and limitations of procedures. Shelf life starts from the date of manufacture. Availability of products in each country depends on local regulatory marketing authorization status.

Thermo Scientific MAS

Toxicology Controls



MAS DOA TOTAL

This multi-constituent urine toxicology control offers 19 analytes with 4 distinct levels at drug concentrations 25% below and above commonly used screening and SAMHSA* cutoffs. A drug-free level and high positive level are also available (6 levels total).

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
DOAT-1	1	6 x 18 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human urine
DOAT-2	2			
DOAT-3	3			
DOAT-4	4			
DOAT-5	5			
DOAT-6	6			
DOAT-MP	Multi-Pack	1 bottle per level, 18 mL each		

Analytes

11-nor-9-COOH-D9-THC	Methaqualone
Benzoylcegonine	Morphine, free
Buprenorphine	Nitrazepam
Cotinine	Nortriptyline
d-Methamphetamine	Oxazepam
EDDP	Oxycodone
Ethanol	Phencyclidine
Ethyl Glucuronide	Propoxyphene
LSD	Secobarbital
Methadone	

MAS TOX Control

This multi-analyte control is designed to monitor the performance of immunoassays for the semi-quantitative measurement of barbiturates, benzodiazepine and tricyclic antidepressants in either serum or plasma.

Part Number	Level	Bottles & Size	Storage & Stability	Matrix
10011608	Multi-Pack 3 levels	2 bottles per level, 6 x 15 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 20 days open-vial @ 2°C to 8°C	Liquid bovine plasma

Analytes

Barbiturate (Secobarbital)
Benzodiazepine (Diazepam)
Tricyclic Antidepressants (Nortriptyline) (for use with DRI Method Serum Tox Reagents)

Dropper Tips - Pkg 100 - MAS P/N 286-606

*Substance Abuse and Mental Health Services Administration (SAMHSA) www.samhsa.gov.

Refer to package insert for specific analyte, stability claims, and limitations of procedures. Shelf life starts from the date of manufacture. Availability of products in each country depends on local regulatory marketing authorization status.

Thermo Scientific MAS

Serological Infectious Disease Controls

MAS Omni•Infectious BSI Positive Control Panel

The Blood Stream Infection (BSI) Positive Control Panel is a multi analyte quality control used for the independent monitoring of the analytical performance of IVD serology test systems.

Part Number	Bottles & Size	Storage & Stability	Matrix
10027480	5 x 5 mL	13 month shelf life @ 2°C to 8°C from date of manufacture 60 days open-vial @ 2°C to 8°C	Liquid human serum

Analytes

Anti-HIV 1/2
Anti-HTLV I/II
HBsAg
Anti-HBc
Anti-HCV

MAS Infectious Negative Control

Thermo Scientific™ MAS™ Infectious Negative Control is an independent unassayed control used in the clinical laboratory for both manual testing and on automated test platforms.

Part Number	Bottles & Size	Storage & Stability	Matrix
10027484	10 x 5 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 60 days open-vial @ 2°C to 8°C	Liquid human serum

Analytes

Anti-HIV 1/2
Anti-HTLV I/II
HBsAg
Anti-HBs
Anti-HBc
Anti-HCV
Anti-TP





MAS HIV p24 Positive Control

Thermo Scientific™ MAS™ HIV p24 Positive Control is used to assess the performance of serological assays that detect HIV p24 antigen in the clinical laboratory.

Analytes

HIV p24

Part Number	Bottles & Size	Storage & Stability	Matrix
10027481	5 x 5 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum

MAS anti-HBs Positive Control

Thermo Scientific™ MAS™ anti-HBs Positive Control is used to assess the performance of serological assays that detect antibodies to Hepatitis B Surface Antigen.

Analytes

anti-HBs

Part Number	Bottles & Size	Storage & Stability	Matrix
10027482	5 x 1 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum

MAS Syphilis Positive Control

Thermo Scientific™ MAS™ Syphilis Positive Control is used to assess the performance of serological assays that detect antibody against *Treponema pallidum*, the etiological agent for syphilis.

Analytes

anti-TP (Syphilis)

Part Number	Bottles & Size	Storage & Stability	Matrix
10027483	5 x 1 mL	18 month shelf life @ 2°C to 8°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum

Thermo Scientific MAS

Optimizing QC for QuidelOrtho instruments

Thermo Fisher Scientific and QuidelOrtho are partnering to optimize quality assurance for QuidelOrtho™ Vitros™ analyzers. Based on performance tests, QuidelOrtho now officially recommends that customers switch to Thermo Scientific MAS Quality Controls because of their excellent features and reliable results.

What's new for QuidelOrtho customers

	Ortho Clinical Diagnostics Vitros performance verifier		Thermo Scientific MAS Quality Controls
Format	60% lyophilized vial	▶	100% liquid stable
Open vial stability	7 days	▶	Up to 30 days
Shelf life	12 to 24 months	▶	36 months
Peer QC software	No solution	▶	LabLink xL

GEN-Specific value assignment target ranges available for all MAS controls

Consolidation

Thermo Scientific MAS Omni Quality Controls consolidate routinely needed QC products. You can work faster and cut down on costs—without affecting quality.

		Vitros 3600		Vitros 4600		Vitros 5600	
		Vitros performance verifiers	MAS Quality Controls	Vitros performance verifiers	MAS Quality Controls	Vitros performance verifiers	MAS Quality Controls
PREP	Control vials	20	4	32	14	52	16
PRE-RUN	Cups for QC run	20	4	36	14	56	16

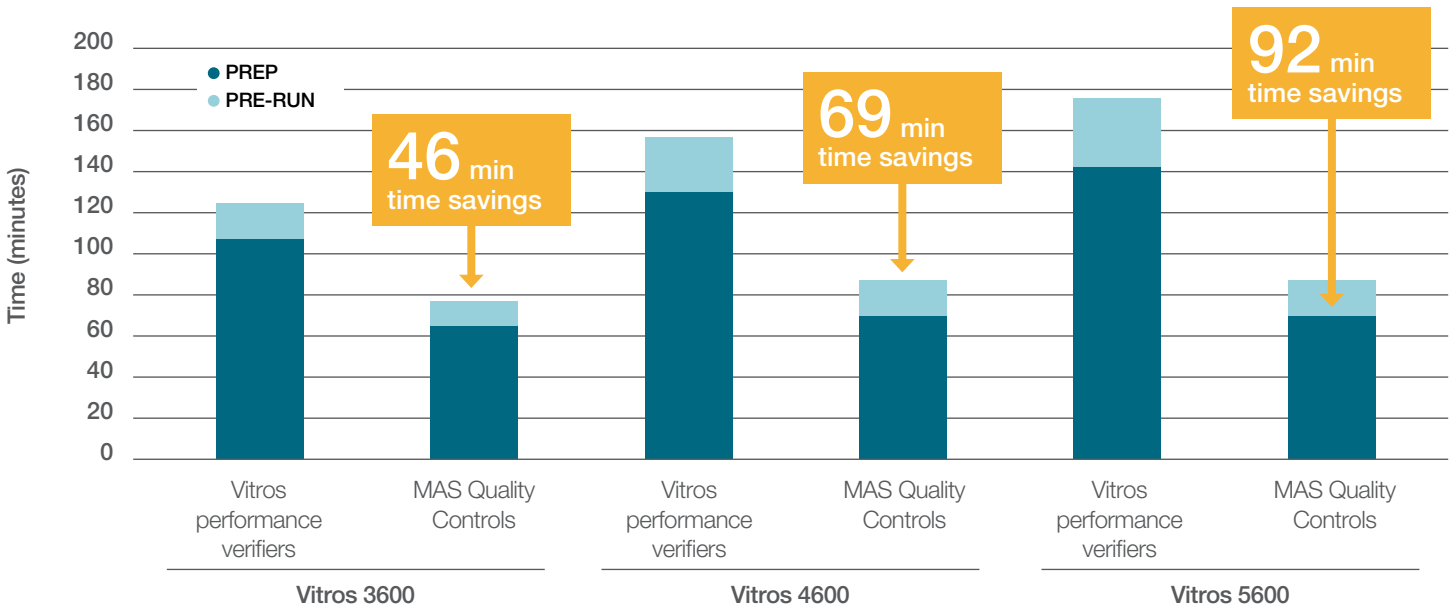
Consolidation potential when switching from Ortho Clinical Diagnostics Vitros performance verifiers to Thermo Scientific MAS Quality Controls (data independently generated by Ortho Clinical Diagnostics)

Thermo Scientific MAS Omni•CORE

70+ analytes **→** **1** vial

Time savings

Using Thermo Scientific MAS Omni Quality Controls involves less preparation and analyzer time than individual controls, allowing you to realize time savings in your day-to-day workflow. Lab technicians also benefit from reduced time spent pipetting during the run.



Time savings potential when switching from Ortho Clinical Diagnostics Vitros performance verifiers to Thermo Scientific MAS Quality Controls (data independently generated by Ortho Clinical Diagnostics)



MAS Quality Controls +
Vitros analyzers
**A powerful
combination**



Thermo Scientific LabLink xL

Quality Assurance Software

As part of the Thermo Scientific™ quality assurance program (QAP), **Thermo Scientific™ LabLink xL™ Quality Control Software** offers all of the statistical tools laboratories need, including measurement of uncertainty and Six Sigma to help evaluate the performance of your methods and reduce QC runs.

LabLink xL software provides easier and faster troubleshooting to improve confidence in patient results.



Truly Real-Time Peer Comparison Software

Peer data is updated instantly



Daily QC Integration for MAS and Other QC Products

All your QC products are in one place



Simple and Intuitive Interface

Interactive Levey-Jennings charts, Westgard rules, and audit-friendly reports



Automated QC Data Transfer

With select systems



Cloud-Based

SSL encrypted, automatically receive future updates



No Submission Cutoff Dates

Review data whenever you want



Sigma Score and Other Performance Metrics

%Bias, SDI, CVI, Z score and more



Multiple Lab Management

Scalable software grows with your organization



Validated Software

FDA and GAMP 5 compliance

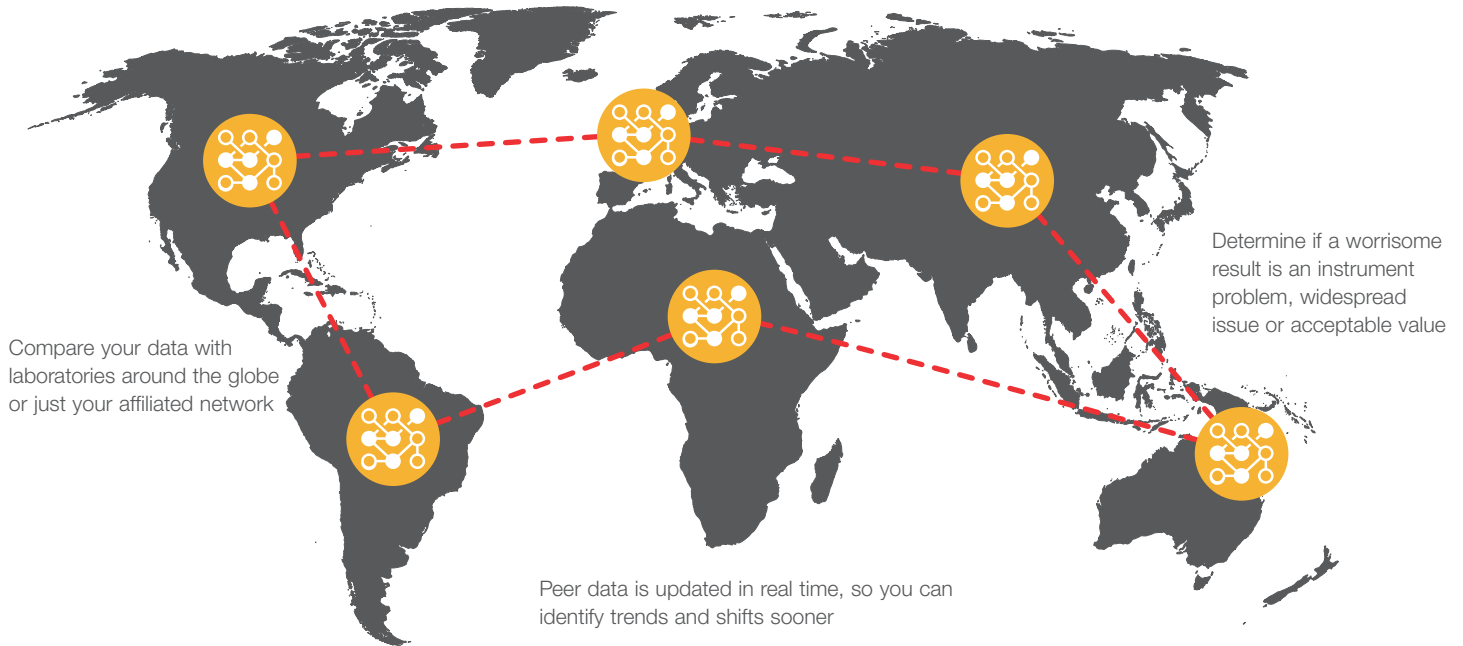


Multilingual Capabilities

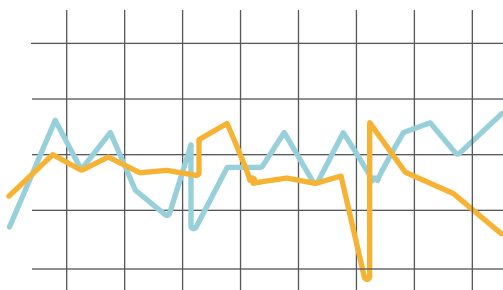
Available in 15+ languages

Thermo Scientific LabLink xL

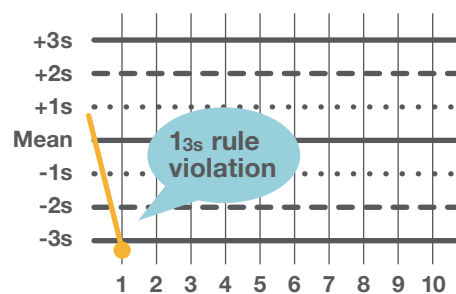
Troubleshoot faster with real-time peer comparison



Day-to-day QC all in one place



Levey-Jennings Charts



Westgard Sigma Rules

- Perform all your daily QC activities inside LabLink xL software with interactive charts and graphs
- Compare Levey-Jennings charts for multiple instruments
- Select Westgard and RiliBÄK violation rules
- Flag and comment on individual data points

Thermo Scientific LabLink xL

Quality Assurance Software

Audit-friendly reports: Visualize data the way you want

- Easy-to-read reports help you monitor individual lab performance by shift, day and month
- View peer data alongside your laboratory data

Internal Performance

Comparison

Levey-Jennings

QC Summary

Errors and Exceptions

Affiliated Exception Notes

Exception Notes

Peer Data Comparison

Affiliated Lab

Condensed Interlab

Drugs of Abuse

Individual Lab

Instrument Interlab

Method Performance

Monthly Summary

Statistical Summary

Summary Urinalysis

Youden

Audit History

Audit

Point Data Submission

Summary Data Submission

Region Specific

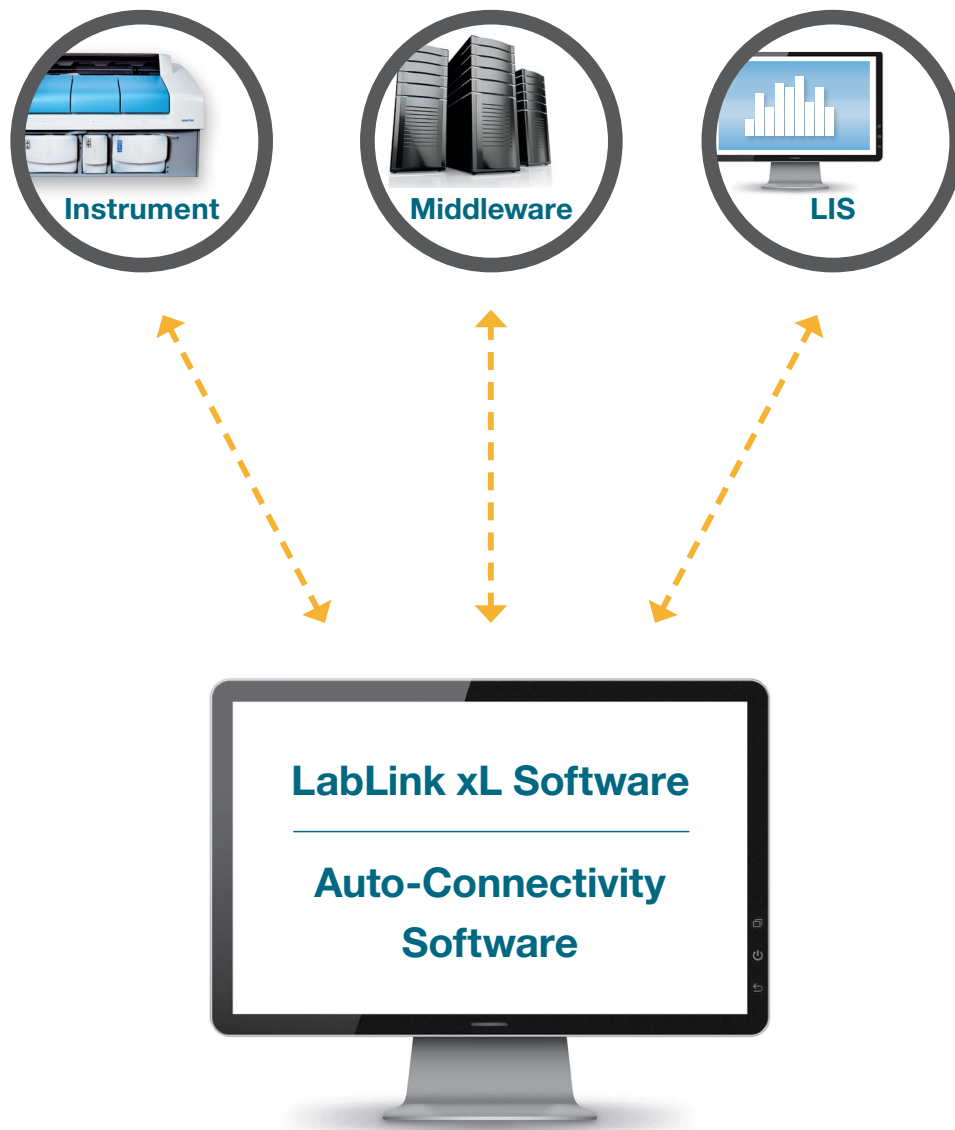
Rilibák Data Summary

Rilibák



Thermo Scientific LabLink xL

Hands-free QC with Auto-Connectivity Software



- No more manual data entry with fully automatic QC data transfer
- QC results are uploaded to LabLink xL software
- Save time with error-free data submission and increase confidence in results



Learn more about
LabLink xL and Auto-Connectivity Software
features and requirements at [maslablink.com](https://www.maslablink.com)

Thermo Scientific MAS

QC Value Assignment Program



Value assignment is an important requirement when rolling over to a new lot of QC material. The ability to provide full coverage of instrument target values involves the partnership of Thermo Fisher Scientific with laboratories performing the required testing. Without involvement of these external laboratories, the ability to provide value assignment coverage is significantly reduced.

Thermo Fisher Scientific is actively looking for new laboratories that are willing to assist with MAS™ QC Value Assignment in return for monetary compensation or QC products. The results received from the participating laboratories are used to establish QC ranges in the lot specific package inserts for the MAS Quality Controls.

Testing guidelines

- Each new lot of QC will utilize a different group of value assignment partner laboratories as participants are not required to test every QC lot.
- Advance notification of when to expect samples will be sent out prior to testing.
- Instructions for testing and data entry forms are sent with all value assignment samples.
- Most tests are run in duplicate over three separate days.
- All testing must to be completed within 4 to 6 weeks of receiving the samples.

Compensation options

- Monetary: This is typically based upon a flat fee per data point plus reagent costs. As this varies between test systems and methods, there is no standard amount. The different reimbursement options will be discussed prior to product shipment.
- MAS QC product: This is based upon the number of tests and MAS products being value assigned. QC product is given at the discretion of your sales representative. Further details will be provided by a member of the value assignment team.

Participation requirements

- CLIA certification or equivalent local accreditation.
- A completed W-9 form (US only).
- A completed survey noting instruments and testing capabilities.

Steps to follow if you are interested in participating in the MAS Value Assignment Program

Step 1: Complete the form below.

Step 2: Fax this page to +1 510-771-1539 or email to MGC-VA@thermofisher.com.

Step 3: A value assignment introduction pack will be sent via mail or email. Please complete the forms and return to us.

Step 4: Once the introduction pack is received, a member of the value assignment team will notify you to discuss acceptance into the program and the different methods of compensation.

Lab Name:

Lab Address:

Contact Name: Alternate Contact:

Phone Number: Fax Number:

Email: Accreditation #:

Fax to: **+1 510-771-1539**

Email to: **MGC-VA@thermofisher.com**

Thermo Scientific AMX

One portfolio for all your QC needs

A dependable partner for the modern molecular laboratory

The **Thermo Scientific™ AcroMetrix™** (AMX) portfolio offers standardized third-party controls, validation panels and customer solutions that will help you achieve accurate and consistent test results.

Accurate, reliable quality control solutions—designed with an awareness of the importance of reproducible, traceable results with dependable lot-to-lot consistency.



Fully traceable*
Aligned with international reference standards



Mimics human specimen
Ensures reliability, accuracy and meaningful test results



Platform-agnostic*
Permits unbiased performance



Lot-to-lot consistency
For more confidence and less waste

*Applies to most AcroMetrix controls

Infectious disease testing

Measure the full analytical range of your system

AcroMetrix products help standardize infectious disease testing in your lab, allowing you to achieve unprecedented levels of performance. For **HCV testing**, for instance, you benefit from **ultra-high-titer controls** thanks to SynTura™ technology.

SynTura technology

- Recombinant HCV virus
- Noninfectious to humans
- Detectable in HCV assays

Nucleic acid testing (NAT) controls

Catalog Number	Product Name/Description	Vial Fill Volume	Package Size	Regulatory Designation
HIV-1/HBV/HCV Multi-Analyte				
967150	AcroMetrix HIV-1/HCV/HBV Low Control	50.0 mL	1 bottle	CE-IVD, IVD
967151	AcroMetrix HIV-1/HCV/HBV High Control	50.0 mL	1 bottle	CE-IVD, IVD
HIV-1				
942013	AcroMetrix HIV-1 Panel IU/mL (0, 1E2, 1E3, 1E4, 1E5, 1E6, 1E7 IU/mL)	1.2 mL	7 vials	RUO
950470	AcroMetrix HIV-1 Panel copies/mL (0, 1E2, 5E2, 5E3, 5E4, 5E5, 5E6 copies/mL)	1.2 mL	7 vials	RUO
964001	AcroMetrix HIV-1 Low Control	1.2 mL	5 vials	CE-IVD, IVD
964002	AcroMetrix HIV-1 Mid Control	1.2 mL	5 vials	CE-IVD, IVD
964003	AcroMetrix HIV-1 High Control	1.2 mL	5 vials	CE-IVD, IVD
HBV				
950150	AcroMetrix HBV Panel 1.2 mL (5E1, 5E2, 5E3, 5E4, 5E5, 5E6, 5E7 IU/mL)	1.2 mL	7 vials	RUO
965001	AcroMetrix HBV Low Control	1.0 mL	5 vials	CE-IVD, IVD
965002	AcroMetrix HBV Mid Control	1.0 mL	5 vials	CE-IVD, IVD
965003	AcroMetrix HBV High Control	1.0 mL	5 vials	CE-IVD, IVD
HCV				
950350	AcroMetrix HCV-s Panel (1E2, 5E2, 5E3, 5E4, 5E5, 5E6, 2.5E7 IU/mL)	1.2 mL	7 vials	RUO
942000	AcroMetrix HCV Genotyping Panel	0.5 mL	4 vials	RUO
963001	AcroMetrix HCV Low Control	1.2 mL	5 vials	CE-IVD, IVD
963002	AcroMetrix HCV Mid Control	1.2 mL	5 vials	CE-IVD, IVD
963003	AcroMetrix HCV High Control	1.2 mL	5 vials	CE-IVD, IVD
HPV				
950075	AcroMetrix HPV-16 Genotype Control	4.0 mL	5 vials	RUO
950076	AcroMetrix HPV-18 Genotype Control	4.0 mL	5 vials	RUO
950077	AcroMetrix HPV-68 Genotype Control	4.0 mL	5 vials	RUO
950078	AcroMetrix HPV Negative Control	4.0 mL	5 vials	RUO
CT/NG				
967146	AcroMetrix CT/NG Control	20.0 mL	1 bottle	CE-IVD, IVD
SARS-COV-2				
954519	AcroMetrix COVID-19 RNA Control	20 µl	2 vials	RUO
954517	AcroMetrix SARS-CoV-2 Control	1.5 mL	5 vials	RUO
954516	AcroMetrix Multi-Analyte SARS-CoV-2, Flu A/B, RSV A/B Control	1.5 mL	5 vials	RUO
Assay inhibitors				
956400	AcroMetrix Inhibition Panel	1.0 mL	7 vials	RUO

CE-IVD CE marking according to the Requirements of European Directive 98/79/EC and (EU) 2017/746 | IVD In Vitro Diagnostics | RUO Research Use Only

Meeting the requirements of blood screening labs

Effective detection of infectious diseases at blood screening labs requires quality controls that offer exceptionally high sensitivity and accuracy. AcroMetrix products are **optimized and validated** to meet these specific quality assurance needs.

Ensuring screening excellence

- Matches commonly used assays
- Reacts at appropriate levels
- Manufactured in an ISO 13485 facility

Nucleic acid testing (NAT) controls—Blood screening

Catalog Number	Product Name/Description	Vial Fill Volume	Package Size	Regulatory Designation
Blood Bank Nucleic Acid Testing Controls				
S2115	AcroMetrix PeliSpy NAT MM 375	1.0 mL	50 vials	RUO
964600	AcroMetrix NATBBV- (formerly NAT Negative)	1.4 mL	10 vials	CE-IVD
961240	AcroMetrix HIVRNA+ (formerly PeliSpy Pro HIV Low)	1.4 mL	10 vials	CE-IVD
961241	AcroMetrix HBVDNA+ (formerly PeliSpy Pro HBV Low)	1.4 mL	10 vials	CE-IVD
961242	AcroMetrix HCVRNA+ (formerly PeliSpy Pro HCV Low)	1.4 mL	10 vials	CE-IVD
960500*	AcroMetrix WNV RNA	1.4 mL	10 vials	CE-IVD, IVD
Blood Screening – Nucleic Acid Testing Control Diluents				
S2284	AcroMetrix EDTA Plasma Dilution Matrix	45.0 mL	1 bottle	RUO

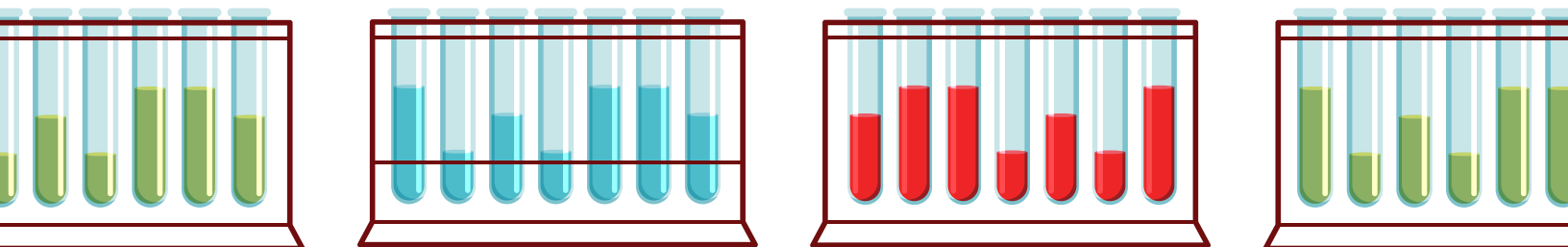
*Discontinued in the US.

Serology/immunoassay controls—Blood screening

Serology controls (formerly PeliSpy™ Multi-Marker)

Catalog Number	Product Name/Description	Vial Fill Volume	Package Size	Regulatory Designation
S2407	AcroMetrix PeliSpy Sero Control Type 17 HBsAg, anti-HCV, anti-HIV, anti-HTLV	5.0 mL	10 vials	RUO
S2408	AcroMetrix PeliSpy Sero Control Type 36 HBsAg, anti-HCV, anti-HIV, anti-HTLV, anti-HBc	5.0 mL	10 vials	RUO
S2409	AcroMetrix PeliSpy Sero Control Negative	5.0 mL	10 vials	RUO
969032	AcroMetrix Blue 5pk (formerly PSMM Type 38) HBsAg, anti-HCV, anti-HIV-1	5.0 mL	5 vials	CE-IVD

CE-IVD CE marking according to the Requirements of European Directive 98/79/EC and (EU) 2017/746 | IVD In Vitro Diagnostics | RUO Research Use Only



Transplant disease testing

It's like working with patient samples

With **full-process controls**, you can ensure optimal performance for transplant disease testing in your lab. AcroMetrix products are quality controls made from whole, unaltered virus in either EDTA-based plasma or in a synthetic matrix similar to cerebrospinal fluid.

True full-process controls

- Mimics patient samples
- Permits extraction, amplification and detection
- Controls can be traced to WHO standards

Nucleic acid testing (NAT) controls

Catalog Number	Product Name/Description	Vial Fill Volume	Package Size	Regulatory Designation
Transplant Multi-Analyte				
957041	Multi-Analyte Control – Transplant (Low/High) BKV, CMV, EBV, HHV-6B, HSV-1, HSV-2, VZV	50.0 mL	2 bottles	RUO
BK Virus				
950360	AcroMetrix BKV Panel (5E2, 5E3, 5E4, 5E5, 5E6 copies/mL)	0.5 mL	5 vials	RUO
960050	AcroMetrix BKV Low Plasma Control	0.5 mL	5 vials	CE-IVD, IVD
960051	AcroMetrix BKV High Plasma Control	0.5 mL	5 vials	CE-IVD, IVD
CMV				
942016	AcroMetrix CMVtc Panel (3E2, 3E3, 3E4, 3E5, 3E6 IU/mL)	0.8 mL	5 vials	RUO
951701	AcroMetrix CMV Low Plasma Control	0.8 mL	5 vials	RUO
951702	AcroMetrix CMV High Plasma Control	0.8 mL	5 vials	RUO
EBV				
942017A	AcroMetrix EBV Plasma Panel (1E2, 1E3, 1E4, 1E5, 1E6 IU/mL)	0.5 mL	5 vials	RUO
961230	AcroMetrix EBV Low Plasma Control	0.5 mL	5 vials	CE-IVD, IVD
961231	AcroMetrix EBV High Plasma Control	0.5 mL	5 vials	CE-IVD, IVD
HSV-1				
954520	AcroMetrix HSV-1 Plasma Panel (1E2, 1E3, 1E4, 1E5, 1E6 copies/mL)	0.5 mL	5 vials	RUO
951301	AcroMetrix HSV-1 Low CSF Control	0.5 mL	5 vials	RUO
954501	AcroMetrix HSV-1 High CSF Control	0.5 mL	5 vials	RUO
HSV-2				
954525	AcroMetrix HSV-2 Plasma Panel (1E2, 1E3, 1E4, 1E5, 1E6 copies/mL)	0.5 mL	5 vials	RUO
951302	AcroMetrix HSV-2 Low CSF Control	0.5 mL	5 vials	RUO
954502	AcroMetrix HSV-2 High CSF Control	0.5 mL	5 vials	RUO
VZV				
954530	AcroMetrix VZV Plasma Panel (1E2, 1E3, 1E4, 1E5, 1E6 copies/mL)	0.5 mL	5 vials	RUO
954511	AcroMetrix VZV Low CSF Control	0.5 mL	5 vials	RUO
954512	AcroMetrix VZV High CSF Control	0.5 mL	5 vials	RUO

Nucleic acid testing (NAT) controls (continued)

Catalog Number	Product Name/Description	Vial Fill Volume	Package Size	Regulatory Designation
Adenovirus				
954535	AcroMetrix Adenovirus Plasma Panel (1E3, 1E4, 1E5, 1E6, 1E7 copies/mL)	0.5 mL	5 vials	RUO
954505	AcroMetrix Adenovirus Low Plasma Control	0.5 mL	5 vials	RUO
954506	AcroMetrix Adenovirus High Plasma Control	0.5 mL	5 vials	RUO
Enterovirus				
960499	AcroMetrix EV Negative Control	0.3 mL	5 vials	CE-IVD, IVD
960501	AcroMetrix EV Low Control	0.3 mL	5 vials	CE-IVD, IVD
Negative Control				
951300	AcroMetrix HHV Negative Control	0.5 mL	5 vials	RUO



Oncology testing

Ready to assess NGS performance?

The AcroMetrix Oncology Hotspot Control lets you monitor the performance of various **next-generation sequencing (NGS) platforms**, including custom library preparation panels. The highly multiplexed quality control is manufactured using MegaMix™ technology and is **suited for assays that detect somatic mutations**. To help ensure the highest levels of accuracy, over 500 SNPs, insertions, and deletions of varying lengths and complexities are added against a highly characterized genomic background. You can use the AcroMetrix Oncology Hotspot Control to track multiple variant types of varying nucleotide lengths.

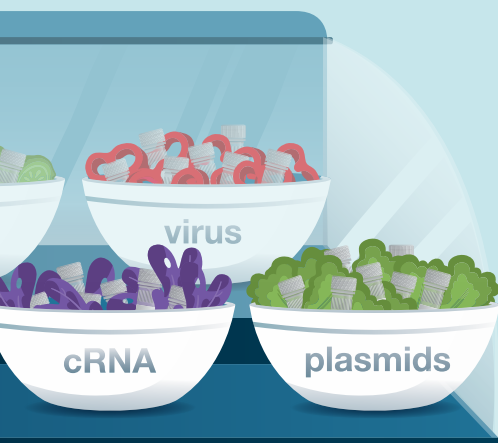
MegaMix technology

- Synthetic + genomic DNA blend
- Variants confirmed by Sanger sequencing
- GM24385 genomic background characterized by Genome in a Bottle Consortium (GIAB)

Oncology quality controls

Catalog Number	Product Name/Description	Vial Fill Volume	Package Size	Regulatory Designation
Solid Tumor				
969056	AcroMetrix Oncology Hotspot Control	25 µL	3 vials	CE-IVD, IVD
10026229	AcroMetrix Hotspot Frequency Ladder	30 µL	7 vials	RUO
10024431	AcroMetrix Core Hotspot-CNV DNA Control	8 µL	8 vials	RUO
10024432	AcroMetrix Core Fusion RNA Control	8 µL	8 vials	RUO
Liquid Biopsy				
957563	AcroMetrix Multi-Analyte ctDNA Plasma Control A (VAF 1%)	2 mL	1 vial	RUO
957564	AcroMetrix Multi-Analyte ctDNA Plasma Control B (VAF 0.5%)	2 mL	1 vial	RUO
957565	AcroMetrix Multi-Analyte ctDNA Plasma Control C (VAF 0.25%)	2 mL	1 vial	RUO
957566	AcroMetrix Multi-Analyte ctDNA Plasma Control D (VAF 0.1%)	2 mL	1 vial	RUO
957567	AcroMetrix Multi-Analyte ctDNA Plasma Control E (VAF 0%)	2 mL	1 vial	RUO
Hematology				
956980	AcroMetrix BCR-ABL Panel	1 x 10 ⁶ cells	5 vials	RUO

CE-IVD CE marking according to the Requirements of European Directive 98/79/EC and (EU) 2017/746 | IVD In Vitro Diagnostics | RUO Research Use Only



Cutting-edge technology for NGS QC needs

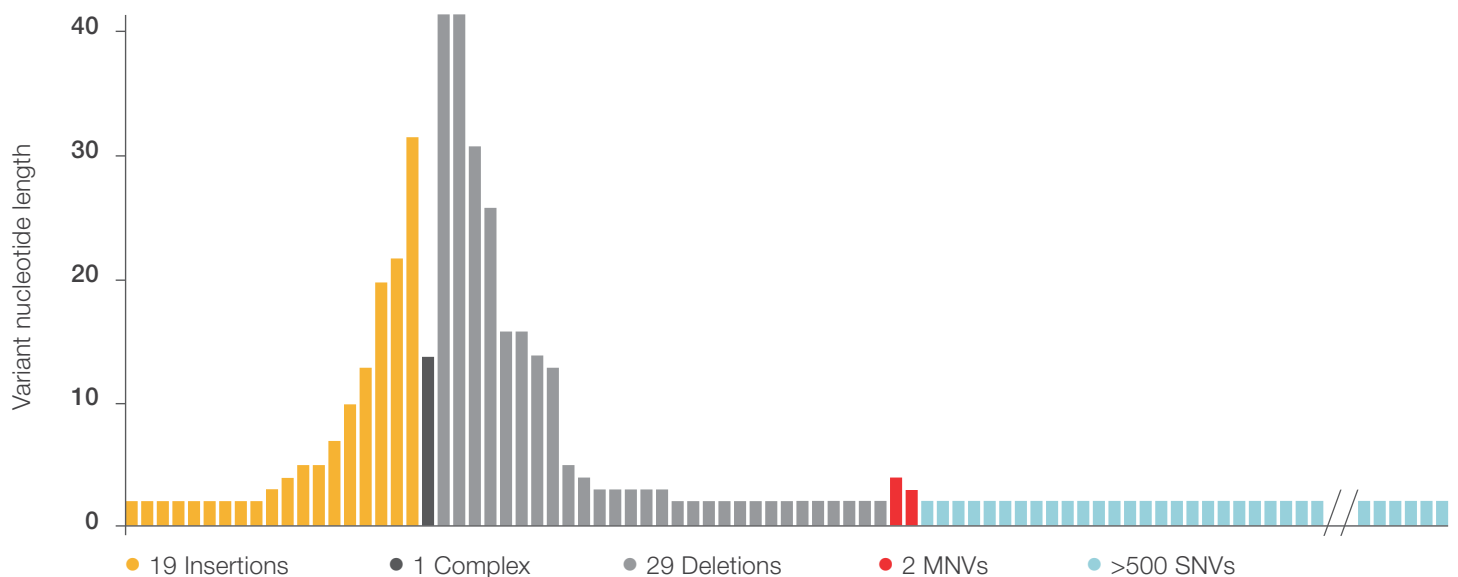
 **500+**
mutations

 **53**
genes

 **5**
variant types

500+ gene mutations available thanks to MegaMix technology

Track multiple variant types of varying nucleotide lengths



53 genes represented

ABL1	CTNNB1	FLT3	JAK2	NOTCH1	SMARCB1
AKT1	EGFR	FOXL2	JAK3	NRAS	SMO
ALK	ERBB2	GNA11	KDR	PDGFRA	SRC
APC	ERBB4	GNAQ	KIT	PIK3CA	STK11
ATM	EZH2	GNAS	KRAS	PTEN	TP53
BRAF	FBXW7	HNF1A	MET	PTPN11	VHL
CDH1	FGFR1	HRAS	MLH1	RB1	MAP2K1
CDKN2A	FGFR2	IDH1	MPL	RET	NPM1
CSF1R	FGFR3	IDH2	MSH6	SMAD4	

Custom and OEM capabilities

Tailor-made for you

Thermo Fisher Scientific has a proven history of working with the world's leading diagnostic companies and EQAS/PT providers to meet a broad range of QC needs. You will benefit from an experienced partner that can create custom solutions based on existing catalog products or new analytes with respect to concentration, matrices and fill volumes. We also specialize in developing OEM (RUO/IVD) solutions to help meet your unique needs for in-kit controls and other training/assay QC release control needs.

Personalized quality controls and standards that can be adapted to suit your specific needs

Range of matrices

- Normal human plasma
- Serum
- Synthetic plasma
- Viral transport medium
- CSF

Several sample types

- Inactivated or attenuated whole virus
- Recombinant virus
- FFPE
- ctDNA
- ctRNA
- Genomic DNA
- cRNA
- Plasmids
- In-vitro transcripts

Flexible features

- Fill volume
- VAF%
- Concentration
- Number of vials

Supporting your entire assay life cycle with controls that fit your needs



EQAS/PT External Quality Assessment Scheme/Proficiency Testing | CSF Cerebrospinal fluid | FFPE Formalin-fixed paraffin-embedded | ctDNA Circulating tumor DNA | ctRNA Circulating tumor RNA | cRNA complementary RNA

Thermo Scientific MAS

Control Reference

Analytes



Reference | Analytes

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	Alcohol/Ammonia	Bilirubin	CardioImmune*XL	chemTRAK*H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni*CARDIO	Omni*CORE	Omni*Immune	Omni*Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Omni*Infectious BSI Pos.	HIV p24	anti-HBs Positive	Syphilis Positive	Infectious Negative	
17-OH-Progesterone									◆			◆	◆														
25-OH-Vitamin D												◆	◆														
Acetaminophen				◆					◆		◆	◆	◆														
Acid Phosphatase				■																							
Adrenocorticotrophic Hormone												◆	◆				■										
Albumin (BCG)				◆	◆			◆			◆																
Albumin (BCP)				◆				◆			◆																
Aldosterone									◆			◆	◆														
Alkaline Phosphatase (ALP)				◆							◆																
alpha-1-Acid Glycoprotein								◆			◆																
alpha-1-Antitrypsin								◆			◆																
alpha-2-Macroglobulin								◆			◆																
alpha-Fetoprotein (AFP)									◆			◆	◆					◆									
Aldosterone												◆	◆														
Alanine Aminotransferase (ALT)				◆							◆																
Amikacin				◆					◆		◆	◆	◆	◆													
Amitriptyline				◆												■											
Ammonia	◆																										
Amphetamines							◆																				
Amylase				◆							◆											◆					
Amylase (Pancreatic)				◆							◆																
Anti-HBc																							◆				◆
Anti-HBs																								◆			◆
Anti-HCV																							◆				◆
Anti-HIV 1/2																							◆				◆
Anti-HTLV I/II																							◆				◆
Anti-TP (Syphilis)																									◆		◆
Antistreptolysin O (ASO)								◆			◆																
Anti-Thyroglobulin (anti-Tg)													◆														
Anti-Thyroid Peroxidase (anti-TPO)													◆														
Antithrombin III								◆																			
Apolipoprotein A1				◆				■			◆																
Apolipoprotein B				◆				■			◆																
Appearance																		◆	◆	◆							
Aspartate Amonittransferase (AST)				◆							◆																

◆ - Analyte present. ■ - No claim is made for expected values or the stability of these constituents.

Analyte	9	9	14	8	16	15	17	16	12	5	4	6	6	13	11	17	13	10	10	10	11	18	19	19	19	18	
	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Omni•Infectious BSI Pos.	HIV p24	anti-HBs Positive	Syphilis Positive	Infectious Negative	
Barbiturates							◆									◆											
Benzodiazepines							◆									◆											
beta-2-Microglobulin								◆			◆	◆	◆					◆									
Human Chorionic Gonadotropin (beta-hCG)									◆	◆		◆	◆				◆										
Bile Acids											◆																
Bilirubin, Conjugated		◆		◆							◆																
Bilirubin, Direct		◆		◆							◆																
Bilirubin, Neonatal		◆		◆							◆																
Bilirubin, Total		◆		◆							◆																
Bilirubin, Unconjugated		◆		◆							◆																
Bilirubin, Urine															◆			◆	◆	◆							
BNP 32			◆							◆																	
Blood Urea Nitrogen (BUN)				◆							◆																
Buprenorphine							◆																				
C-Peptide												◆	◆														
C-Reactive Protein (CRP)								◆			◆																
C3 Complement				◆				◆			◆																
C4 Complement				◆				◆			◆																
CA 15-3												◆	◆					◆									
CA 19-9												◆	◆					◆									
CA 27-29																		◆									
CA 72-4																		◆									
CA 125												◆	◆					◆									
Caffeine				◆							◆			◆													
Calcitonin													■					◆									
Calcium				◆							◆											◆					
Cannabinoids (THC)							◆																				
Carbamazepine				◆					◆		◆	◆	◆	◆													
Carbamazepine (Free)														■													
CEA (carcinoembryonic antigen)									◆			◆	◆					◆									
Ceruloplasmin								◆			◆																
Chloramphenicol									◆																		
Chloride				◆	◆						◆											◆					
Cholesterol				◆							◆																
Creatine Kinase (CK)				◆						◆	◆																

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Reference | Analytes

Analyte	Page 9	Page 9	Page 14	Page 8	Page 16	Page 15	Page 17	Page 16	Page 12	Page 5	Page 4	Page 6	Page 6	Page 13	Page 11	Page 17	Page 13	Page 10	Page 10	Page 10	Page 11	Page 18	Page 19	Page 19	Page 19	Page 18	
Analyte	Alcohol/Ammonia	Bilirubin	CardioImmuneXL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Omni•Infectious BSI Pos.	HIV p24	anti-HBs Positive	Syphilis Positive	Infectious Negative	
CK-MB			◆						◆	◆																	
Carbon Dioxide (CO ₂)				◆							◆																
Cocaine (Benzoylcegonine)							◆																				
Color																		◆	◆	◆							
Cortisol									◆		◆	◆	◆				◆					◆					
Cotinine							◆																				
Copper											◆																
Creatinine				◆							◆							◆	◆	◆	◆						
Crystals																		◆	◆	◆							
CYFRA 21-1																		■									
d-Dimer										◆																	
d-Methamphetamine							◆																				
Diazepam																◆											
DHEA-Sulfate									◆			◆	◆														
Digitoxin			◆							◆																	
Digoxin				◆					◆		◆	◆	◆	◆													
Disopyramide				◆					◆		◆	◆	◆	◆													
EDDP (Methadone Metabolite)							◆																				
Estradiol									◆			◆	◆				◆										
Estriol														◆													
Estriol (Free)												◆	◆														
Ethanol	◆			◆			◆				◆																
Ethanol Ethyl Glucuronide (EtG)							◆																				
Ferritin				■				■	◆		◆	◆	◆				◆										
Folate (Vitamin B9)									◆			◆	◆														
Fructosamine												■	■														
Follicle Stimulating Hormone (FSH)									◆			◆	◆														
Gastrin												◆	◆					◆									
Gentamicin				◆					◆		◆	◆	◆	◆													
Gamma-Glutamyl Transferase (GGT)				◆							◆																
Glucose				◆	◆						◆				◆			◆	◆	◆	◆						
Haptoglobin				◆					◆		◆																
HBsAg																						◆					◆
Human Chorionic Gonadotropin (hCG)									◆	◆		◆	◆		◆		◆	◆	◆	◆	◆						
HDL Cholesterol				◆							◆																

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Page	9	9	14	8	16	15	17	16	12	5	4	6	6	13	11	17	13	10	10	10	11	18	19	19	19	18	
Analyte	Alcohol/Ammonia	Bilirubin	CardioImmuneXL	chemTRAK+H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni+CARDIO	Omni+CORE	Omni+Immune	Omni+Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Omni+Infectious BSI Pos.	HIV p24	anti-HBs Positive	Syphilis Positive	Infectious Negative	
Hemoglobin (Urine Test)															◆			◆	◆	◆							
Hemoglobin A1c (HbA1c)						◆																					
HIV p24																								◆			
Homocysteine			◆						◆			◆	◆														
hsC-Reactive Protein (hsCRP)			◆							◆																	
Human Growth Hormone									◆			◆	◆														
Imipramine				◆							◆																
Immunoglobulin A (IgA)				■	■			◆	■		◆																
Immunoglobulin E (IgE)								◆	■		◆	◆	◆														
Immunoglobulin G (IgG)				■	■			◆	■		◆																
Immunoglobulin M (IgM)				■	■			◆	■		◆																
Insulin									◆			■	■				◆										
IGF-1 (Insulin-like growth factor 1)												◆	◆														
Iron				◆							◆																
Iron Binding Capacity (IBC)				◆							◆																
Kappa Light Chain								◆																			
Ketones															◆			◆	◆	◆							
Lactic Acid				◆	◆						◆																
Lambda Light Chain								◆																			
Lactate Dehydrogenase (LD)				◆	◆						◆																
LDL Cholesterol				◆							◆																
Leukocyte Esterase															◆			◆	◆	◆							
Lidocaine				◆					◆		◆	◆	◆	◆													
Lipase				◆							◆																
Lipoprotein (a)				◆							◆																
Lithium				◆					◆		◆	◆	◆	◆													
LSD							◆																				
Luteinizing Hormone (LH)									◆			◆	◆														
Magnesium				◆							◆											◆					
Methadone							◆																				
Methaqualone							◆																				
Methotrexate				◆							◆				◆												
Microalbumin															◆			◆	◆	◆	◆						
Morphine, Free							◆																				
Myoglobin			◆							◆																	

◆ - Analyte present. ■ - No claim is made for expected values or the stability of these constituents.

Reference | Analytes

Analyte	Page 9	9	14	8	16	15	17	16	12	5	4	6	6	13	11	17	13	10	10	10	11	18	19	19	19	18	
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Myeloperoxidase (MPO)										◆																	
N-acetylprocainamide (NAPA)				◆					◆		◆	◆	◆	◆													
N-Terminal Brain Natriuretic Peptide (NT-proBNP)										◆																	
Nitrite															◆			◆	◆	◆							
Nordiazepam									◆			◆	◆														
Nortriptyline				◆			◆				◆					◆											
NSE																	■										
Opiates (Morphine, Free)							◆																				
Osmolality				◆							◆							◆	◆	◆	◆						
Oxazepam							◆																				
Oxycodone							◆																				
Prostatic Acid Phosphatase (PAP)												◆	◆				◆										
Parathyroid Hormone (PTH)												◆	◆														
pH															◆			◆	◆	◆	◆						
Phencyclidine (PCP)							◆																				
Phenobarbital				◆					◆		◆	◆	◆	◆													
Phenytoin				◆					◆		◆	◆	◆	◆													
Phenytoin (Free)												◆	◆														
Phosphorus				◆							◆												◆				
Potassium				◆	◆						◆							◆	◆	◆	◆						
Prealbumin				◆	◆			◆			◆																
Pregnancy Associated Plasma Protein (PAPP-A)												■	■														
Primidone				◆					◆		◆	◆	◆	◆													
NT-proBNP			◆																								
Procalcitonin (PCT)										◆		◆	◆														
Procainamide				◆					◆		◆	◆	◆	◆													
Progesterone									◆			◆	◆														
Prolactin									◆			◆	◆				◆										
Properdin Factor B									◆																		
Propoxyphene							◆																				
Protein Electrophoresis				◆																							
Prostate Specific Antigen, Total (TPSA)									◆			◆	◆					◆									
Prostate Specific Antigen, Free (FPSA)									◆			◆	◆					◆									
Pseudochoolinesterase (PCHE)				◆							◆																
Quinidine				◆					◆		◆	◆	◆	◆													

◆ - Analyte present. ■ - No claim is made for expected values or the stability of these constituents.

Analyte	9	9	14	8	16	15	17	16	12	5	4	6	6	13	11	17	13	10	10	10	11	18	19	19	19	18	
	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Omni•Infectious BSI Pos.	HIV p24	anti-HBs Positive	Syphilis Positive	Infectious Negative	
Red Cells (Urine Test)																		◆	◆	◆							
Rheumatoid Factor (RF)								◆			◆																
Salicylate				◆					◆		◆	◆	◆	◆													
Secobarbital							◆									◆											
Sex Hormone Binding Globulin (SHBG)													◆														
Sodium				◆	◆						◆							◆	◆	◆	◆						
Specific Gravity															◆			◆	◆	◆	◆						
Testosterone									◆			◆	◆														
Thyroid Uptake (T-Uptake)				◆					◆		◆	◆	◆														
Triiodothyroxine, Total (TT3)				■					◆			◆	◆														
Triiodothyroxine, Free (FT3)				■					◆			◆	◆														
Thyroxine, Total (TT4)				◆					◆		◆	◆	◆														
Thyroxine, Free (FT4)				■					◆			◆	◆														
TBG (Thyroxine-Binding Globulin)												◆	◆														
Theophylline				◆					◆		◆	◆	◆	◆													
Thyroglobulin									◆			◆	◆				◆										
Iron Binding Capacity, Total (TIBC)				◆							◆																
Tobramycin				◆					◆		◆	◆	◆	◆													
Total Protein				◆	◆			◆			◆				◆			◆	◆	◆	◆						
Transferrin								◆			◆																
Tricyclic Antidepressants				◆					◆		◆	◆	◆	◆		◆											
Triglycerides				◆							◆																
Troponin I			◆							◆																	
Troponin T			◆							◆																	
Thyroid Stimulating Hormone (TSH)				◆				◆			◆	◆	◆	◆													
Iron Binding Capacity, Unsaturated (UIBC)				◆							◆																
Urea Nitrogen				◆							◆											◆					
Uric Acid				◆							◆											◆					
Urobilinogen															◆			◆	◆	◆							
Valproic Acid				◆				◆		◆	◆	◆	◆														
Valproic Acid Free											◆	◆															
Vancomycin				◆				◆		◆	◆	◆	◆														
Vitamin B12								◆			◆	◆															
White Cells (Urine Test)																		◆	◆	◆							
Zinc											◆																

◆ - Analyte present. ■ - No claim is made for expected values or the stability of these constituents.

Customer service

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Email mgc-masorders@thermofisher.com

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Please indicate the following required information on your purchase order:

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- Purchase order number
- Shipping address with contact
- Product catalog number
- Quantity desired
- Contact person and phone number

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Fremont, CA 94538-7310 USA
ATTN: Customer Service

Hours 7 a.m. to 4 p.m. Monday to Friday, PT

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Emails for non-urgent inquiries

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LabLink lablink.qap@thermofisher.com

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techservice.mgc@thermofisher.com

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Product claims Failure to use the product as set forth in the product labeling and application sheets can affect performance.

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The value of innovation

A history of quality

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