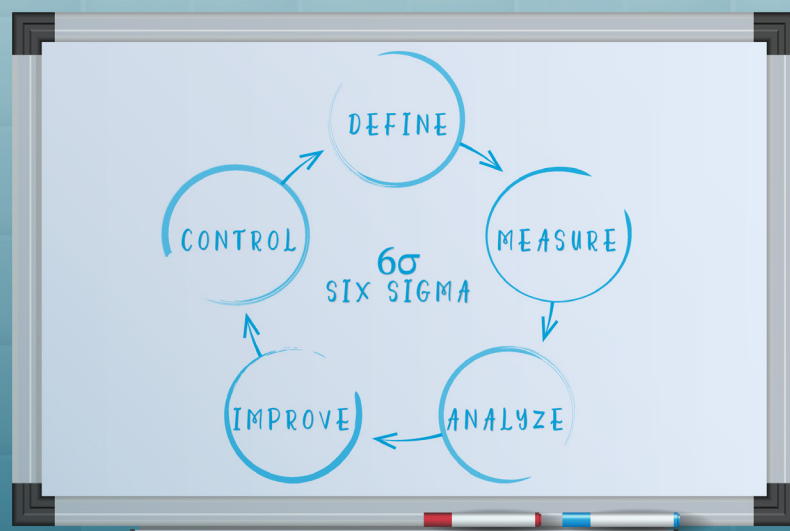




Quality controls

Do more with Thermo Scientific quality control solutions

Thermo Scientific MAS quality controls

Thermo Scientific LabLink 360
quality assurance software

Thermo Scientific AcroMetrix molecular
quality controls and standards

North America 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-day open-vial stability*

reduces waste by extending your window of opportunity to use the product



3-5 year lot shelf life**

Industry-leading shelf life limits the frequency of lot-to-lot validation.



Ready to use straight from refrigeration

Stores safely in standard freezer or refrigerator† eliminating the need for an expensive and energy-consuming deep freezer.



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

* Up to 5 years lot shelf life for some references

** Most MAS QC are stored either at -25°C / -15°C or in standard refrigeration temperatures

† Always refer to the package insert for details on claims and stability

Thermo Scientific MAS

Omni consolidated controls



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	Size	Storage & Stability	Matrix
OCRD-UL	Ultra Low	6 x 3 mL	36 months @ -25°C to -15°C from date of manufacture	Liquid human serum
OCRD-L	Low		15 days @ 2°C to 8°C (for β-HCG, BNP-32, CK-MB, D-Dimer, Digitoxin, hCG, hsCRP, Myeloperoxidase, Procalcitonin, Total CK and Troponin-T)	
OCRD-101	1		10 days @ 2°C to 8°C (for Myoglobin and NT-proBNP)	
OCRD-202	2		5-15 days @ 2°C to 8°C (for Troponin I)	
OCRD-303	3			
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
Homocysteine*		

Introducing MAS Max tubes

Choose from traditional bottles or load-and-go convenience with MAS™ Max tubes.

Streamlined workflow. Time-saving load-and-go tubes are ready to use straight from refrigeration.

Confidence. Load-and-go tubes eliminate manual pour-off to decrease the risk of handling errors.

Automated QC. Barcoded** labels streamline programming and identification for traceability every step of the process.



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**Barcodes available for select instruments



MAS Omni•CORE II and MAS Omni•CORE Max

Thermo Scientific™ MAS™ Omni•CORE™ II controls consolidate general chemistry and serum protein QC processing into a single product, offering three distinct levels. Also available in Max tube format for easy load-and-go QC.

Product	Part Number	Level	Size	Storage & Stability	Matrix
 MAS Omni•CORE II	OCRL-101	1	6 x 5 mL	36 month shelf life @ -25°C to -15°C from date of manufacture**	Liquid human serum
	OCRL-202	2			
	OCRL-303	3			
 MAS Omni•CORE Max	OCRM-101	1	12 x 4 mL	30 days open-vial @ 2°C to 8°C (Bilirubin is 15 days open-vial @ 2°C to 8°C)	
	OCRM-202	2			
	OCRM-303	3			

Analytes

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

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

Thermo Scientific MAS

Omni consolidated controls

MAS Omni•IMMUNE and MAS Omni•IMMUNE Max

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. Also available in Max tube format for easy load-and-go QC.



48 months
lot shelf life*

Product	Part Number	Level	Size	Storage & Stability	Matrix
 MAS Omni•IMMUNE	OIM-101	1	6 x 5 mL	48 month shelf life @ -25°C to -15°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum
	OIM-202	2			
	OIM--303	3			
 MAS Omni•IMMUNE Max	OIMM-101	1	12 x 4 mL	48 month shelf life @ -25°C to -15°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum
	OIMM-202	2			
	OIMM-303	3			

MAS Omni•IMMUNE PRO and MAS Omni•IMMUNE PRO Max

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. Also available in Max tube format for easy load-and-go QC.

Product	Part Number	Level	Size	Storage & Stability	Matrix
 MAS Omni•IMMUNE PRO	OPRO-101	1	6 x 5 mL	48 month shelf life @ -25°C to -15°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum
	OPRO-202	2			
	OPRO-303	3			
 MAS Omni•IMMUNE PRO Max	OPROM-101	1	12 x 4 mL	48 month shelf life @ -25°C to -15°C from date of manufacture 30 days open-vial @ 2°C to 8°C	Liquid human serum
	OPROM-202	2			
	OPROM-303	3			

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. Product with four-year shelf life not available in all countries due to product registration.

Analytes

New Specialty Tests

25-Hydroxy Vitamin D
 Anti-Thyroglobulin (Anti-Tg) (PRO)
 Anti-Thyroid Peroxidase (Anti-TPO) (PRO)
 C-Peptide
 Estradiol, Free
 Fructosamine*
 IGF-1 (insulin-like growth factor 1)
 Phenytoin, Free
 Pregnancy Associated Plasma Protein A (PAPP-A)*
 Procalcitonin (PCT)
 Parathyroid Hormone (PTH)
 Sex Hormone-Binding Globulin (SHBG) (PRO)
 Thyroxine-Binding Globulin (TBG)
 Valproic Acid, Free

TDM/Toxicology Tests

Acetaminophen
 Amikacin
 Benzodiazepine (Nordiazepam)
 Carbamazepine
 Digoxin
 Disopyramide

Ethosuximide
 Gentamicin
 Lidocaine
 Lithium
 N-acetylprocainamide (NAPA)
 Phenobarbital
 Phenytoin
 Primidone
 Procainamide
 Quinidine
 Salicylate
 Theophylline
 Tobramycin
 Tricyclic Antidepressants (TCA)
 Valproic Acid
 Vancomycin

Thyroid Function Tests

Triiodothyronine, Free (FT3)
 Triiodothyronine, Total (TT3)
 Thyroxine, Free (FT4)
 Thyroxine, Total (TT4)
 Thyroglobulin
 Thyroid-Stimulating Hormone (TSH)
 Thyroid Uptake (T-Uptake)

Tumor Marker Tests

Adrenocorticotrophic Hormone (ACTH)
 Beta-2-microglobulin
 CA 125
 CA 15-3
 CA 19-9
 Carcinoembryonic Antigen (CEA)
 Gastrin
 Prostatic Acid Phosphatase (PAP)
 Prostate Specific Antigen, Free (FPSA)
 Prostate Specific Antigen, Total (TPSA)

Reproductive/Fertility Tests

17-alpha-OH-progesterone
 Alpha-fetoprotein
 Estradiol
 Follicle Stimulating Hormone (FSH)
 Human Chorionic Gonadotropin (hCG)
 Beta Human Chorionic Gonadotropin (β-hCG)
 Leuteinizing Hormone (LH)
 Progesterone
 Prolactin
 Testosterone

Endocrine/Hormone Tests

Aldosterone
 Calcitonin**
 Cortisol
 DHEA Sulfate
 Growth Hormone
 Insulin**

Cardiac Tests

Homocysteine

Anemia/Iron Deficiency Tests

Ferritin
 Folate (vitamin B9)
 Vitamin B12

Allergy Tests

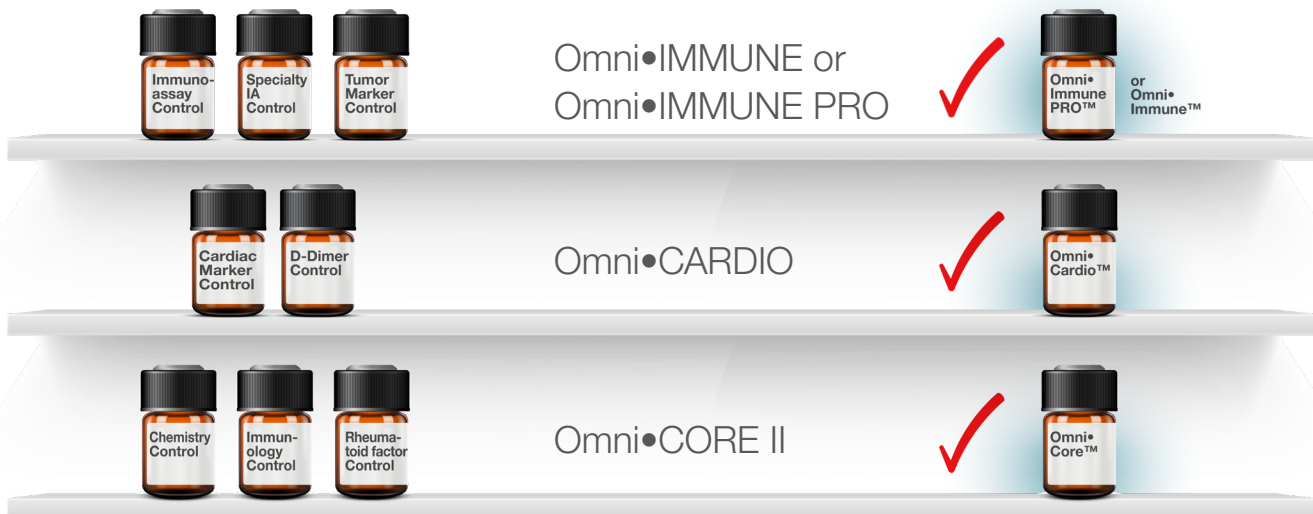
Immunoglobulin E (IgE)

Streamline your workflow

Consolidate multiple QC products, from eight competitor controls to three Omni controls.

 8 competitor controls

to  3 Omni controls



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

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†Only available in MAS Omni-IMMUNE Max and MAS Omni-IMMUNE PRO Max

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	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	
CHU-2	2		7 days open-vial @ 2°C to 8°C; assayed	
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	Methotrexate	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)	HBDS*	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.

Analytes

Ammonia
Ethanol

Part Number	Level	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

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.

Analytes

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

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

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.

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	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	Open-vial:	
UAB-215	2 (abnormal)	6 x 15 mL	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	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	Size	Storage & Stability	Matrix
024222	1 (abnormal)	4 x 15 mL	12 month shelf life @ 2°C to 8°C from date of manufacture	Liquid human urine
024225		4 x 60 mL	30 days open-vial @ 2°C to 8°C	
024224	3 (normal)	4 x 15 mL	18 month shelf life @ 2°C to 8°C from date of manufacture	
024227		4 x 60 mL	30 days open-vial @ 2°C to 8°C	

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

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

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

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

*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

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**Not cleared by FDA.

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	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		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	
CAI-XL4	Tri-level, Multi-Pack			

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	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

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 Diabetes

This liquid assayed diabetes control is a bi-level control designed to monitor hemoglobin A1c methods. Also available in Max tube format for easy load-and-go QC.

Analytes

Hemoglobin A1c (HbA1c)

Product	Part Number	Level	Size	Storage & Stability	Matrix
 MAS Diabetes	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	Liquid human whole blood
 MAS Diabetes Max	B40000687		3 tubes per level, 6 x 2 mL	60 days unopened @ 2°C to 8°C 30 days open-vial @ 2°C to 8°C	



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

Analytes

ADNase ^{††}	C1 - Inhibitor ^{††}	IgG Subclass 1 ^{††}	Lambda Light Chain [*]
Albumin	C3 Complement	IgG Subclass 2 ^{††}	Lambda Light Chain Free ^{††}
Alpha-1-Acid-Glycoprotein	C4 Complement	IgG Subclass 3 ^{††}	Prealbumin
Alpha-1-Antitrypsin	CCP ^{††}	IgG Subclass 4 ^{††}	Properdin Factor B [*]
Alpha-2-Macroglobulin	CDT ^{††}	Immunoglobulin A (IgA)	Retinol Binding Protein ^{††}
Antistreptolysin O	Ceruloplasmin	Immunoglobulin E (IgE)	Rheumatoid Factor (RF)
Antithrombin III [*]	C-Reactive Protein (CRP)	Immunoglobulin G (IgG)	SAA ^{††}
Apolipoprotein A-1 ^{††}	Ferritin [†]	Immunoglobulin M (IgM)	sTRF ^{††}
Apolipoprotein B ^{††}	Haptoglobin	Kappa Light Chain [*]	Total Protein
Beta-2-Microglobulin	Homocysteine ^{††}	Kappa Light Chain Free ^{††}	Transferrin

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	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	

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	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	Size	Storage & Stability	Matrix
10011608	Multi-Pack 3 levels	2 bottles per level, 6 x 5 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	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	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.

Part Number	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

Analytes

HIV p24

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.

Part Number	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

Analytes

anti-HBs

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.

Part Number	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

Analytes

anti-TP (Syphilis)

Thermo Scientific MAS

Quality control solutions for Vista

Thermo Scientific MAS quality control products are available in vials specifically designed for use with the Siemens™ Dimension Vista™ instrumentation. Fully validated onboard QC stability claims and value assignments provide assurance that long-term quality is maintained when performing routine quality control on the Dimension Vista instrument.



MAS Alcohol/Ammonia

Part Number	Level	Size	Storage & Stability	Matrix
10014443	Bi-level, Multi-Pack	3 bottles per level, 6 x 2 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 7 days onboard instrument	Liquid human serum

Analytes

Ammonia
Ethanol

MAS CardiolImmune•XL

Part Number	Level	Size	Storage & Stability	Matrix
10014179	L	6 x 2 mL	36 month shelf life @ -25°C to -15°C from date of manufacture 7 days onboard instrument	Liquid human serum
10014180	1			
10014181	3			
10014182	3			

Analytes

C-Reactive Protein high sensitivity (hsCRP)	Homocysteine
CK-MB	Myoglobin
Digitoxin	NT-pro BNP
	Troponin I

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 chemTRAK•H

Part Number	Level	Size	Storage & Stability	Matrix
10014150	1	6 x 2 mL	30 month shelf life @ –25°C to –15°C from date of manufacture 7 days onboard instrument	Liquid human serum
10014151	2			
10014152	3			

Analytes

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

MAS CSF

Part Number	Level	Size	Storage & Stability	Matrix
10014444	Bi-level, Multi-Pack	3 bottles per level, 6 x 2 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 7 days onboard instrument	Liquid human serum

Analytes

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

*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

Quality control solutions for Vista



MAS Immunology

Part Number	Level	Size	Storage & Stability	Matrix
IC-V1	1	6 x 2 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 7 days onboard instrument	Liquid human serum
IC-V2	2			
IC-V3	3			

Analytes

Albumin	Apolipoprotein B*	Ferritin*	Kappa Light Chain
Alpha-1-Acid-Glycoprotein	Beta-2-Microglobulin	Haptoglobin	Lambda Light Chain
Alpha-1-Antitrypsin	C-Reactive Protein (CRP)	Immunoglobulin A (IgA)	Prealbumin
Alpha-2-Macroglobulin	C3 Complement	Immunoglobulin E (IgE)	Rheumatoid Factor (RF)
Antistreptolysin O (ASO)	C4 Complement	Immunoglobulin G (IgG)	Total Protein
Apolipoprotein A1*	Ceruloplasmin	Immunoglobulin M (IgM)	Transferrin

*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 Liquimmune

Part Number	Level	Size	Storage & Stability	Matrix
10013876	1	6 x 2 mL	60 month shelf life @ -25°C to -15°C from date of manufacture 7 days onboard instrument	Liquid human serum
10013877	2			
10013878	3			

Analytes

Acetaminophen	Gentamicin	N-acetylprocainamide (NAPA)	Thyroid Uptake (T-Uptake)
Alpha-Fetoprotein (AFP)	Homocysteine	Phenobarbital	Thyroxine, Free (FT4)
Carbamazepine	Human Chorionic Gonadotropin (beta-HCG)	Phenytoin	Thyroxine, Total (TT4)
Carcinoembryonic Antigen (CEA)	Immunoglobulin A (IgA)	Procainamide	Tobramycin
CK-MB (activity)	Immunoglobulin E (IgE)	Prolactin	Tricyclic Antidepressants
CK-MB (mass)	Immunoglobulin G (IgG)	Prostate Specific Antigen (PSA)	Triiodothyronine, Free (FT3)
Digoxin	Immunoglobulin M (IgM)	Prostate Specific Antigen Free (FPSA)	Triiodothyronine, Total (TT3)
Estradiol	Lidocaine	Salicylate	Valproic Acid
Ferritin	Lithium	Testosterone	Vancomycin
Folate	Lutenizing Hormone (LH)	Theophylline	Vitamin B12
Folate Stimulating Hormone (FSH)		Thyroid Stimulating Hormone (TSH)	



MAS UrichemTRAK

Part Number	Level	Size	Storage & Stability	Matrix
10014127	Bi-level, Multi-Pack	3 bottles per level, 6 x 2 mL	24 month shelf life @ 2°C to 8°C from date of manufacture 7 days onboard instrument	Liquid human urine

Analytes

Amylase	Creatinine	Phosphorus	Urea Nitrogen
Calcium	Glucose	Potassium	Uric Acid
Chloride	Magnesium	Sodium	
Cortisol	Microalbumin	Total Protein	

Thermo Scientific LabLink 360

LabLink 360 Quality assurance software

As part of the Thermo Scientific™ quality assurance program (QAP), Thermo Scientific™ LabLink 360™ 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 360 provides easier and faster troubleshooting, ensuring better confidence in patient results.



Troubleshoot faster

with real-time peer comparison



Auto-connectivity

Increase confidence in results with hands-free QC data transfers



Audit-friendly reports

Gain enhanced insights with customizable data visualization



Lab management

Manage QC processes across multiple sites from one platform



Thermo Scientific LabLink 360

Real-time peer comparison

Identify trends and shifts sooner with real-time peer comparison data.

Comparing your data with laboratories around the globe or just your affiliated network can help you quickly identify a worrisome result as an instrument problem, widespread issue or acceptable value.

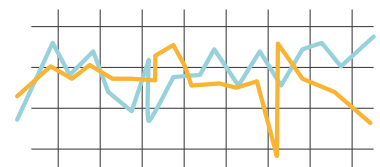
- Create customized peer groups to collaborate with a trusted network of peer labs to control testing variables
- Leverage our extensive affiliate network to help achieve higher standards of accuracy and efficiency, ensuring optimal performance and compliance

Strengthen your insights

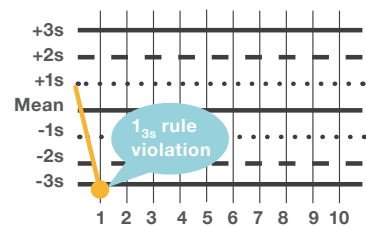
Get instant access to peer data and QC metrics without extra steps. Monitor global peer data alongside your lab's QC data in real-time. Receive insightful metrics in real-time to increase confidence in results and get QC results out faster.

- Perform all your daily QC activities inside LabLink 360 software with interactive charts and graphs
- Flag and comment on individual data points
- Compare Levey-Jennings charts for multiple instruments
- Select Westgard and RiliBÄK violation rules

The **Resource Center** provides a one-stop-shop for all the documentation needed for your accreditation/audit process and provides automatic product updates and notifications.



Levey-Jennings charts



Westgard Sigma rules

Thermo Scientific LabLink 360

Audit-friendly reports

Synchronized digital solutions for automated, paperless documentation and approvals

Visualize data the way you want with easy-to-read reports. Monitor individual lab performance by shift, day and month and view peer data alongside your laboratory data.

- **Schedule automatic reports** and customize the contents, email distribution and frequency—freeing up your time for other tasks
- **Approvals are easy and paperless**—with digital distribution and signature features that eliminate the need for printed reports
- With **no submission cut-off**, you can upload and review your QC data at your convenience
- **Intuitive interface** simplifies training and day-to-day usage



Internal Performance

Comparison

Levey-Jennings

QC Summary

Errors and Exceptions

Affiliated Exception Notes

Exception Notes

Audit History

Audit Trail

Point Data Submission

Summary Data Submission

Peer Data Comparison

Affiliated Lab

Condensed InterLab

Individual Lab

Instrument InterLab

Method Performance (Sigma score)

Monthly Summary

Scatter Plot

Statistical Summary

Summary Urinalysis

Youden

Region Specific

RiliBÄK Data Summary

RiliBÄK Data Submission

Additional Reports

Drugs of Abuse

Quality Data Submission

Event Tracking

Point Data Submission

Quality Data Submission

Thermo Scientific LabLink 360

Eliminate manual data entry with auto-connectivity software

Easy automatic data transfer

Go hands-free with a fully automated QC data transfer solution from your instruments, laboratory information system (LIS), or middleware to LabLink xL quality assurance software.

- QC results automatically upload to the software, instantly saving you time and providing error-free data submission
- LabLink xL only receives quality control data, never patient information. Transfers are password protected and encrypted keep information safe

Multi-factor authentication

We know the importance of data security, which is why we offer multi-factor authentication as an optional LabLink 360 feature. Multi-factor authentication adds an extra layer of security by requiring multiple forms of verification to login, making it harder for unauthorized users to access your data.



Take full advantage of **LabLink 360 features** with **MAS QC** products. Learn more at thermofisher.com/morewithMASQC



Quality controls

Thermo Scientific MAS QC Value Assignment program

Value assignment is an important requirement when rolling over to a new lot of quality controls (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 the 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 Thermo Scientific™ 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.

Participation requirements

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

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 prior to testing
- Instructions for testing and data entry forms are sent with all value assignment samples
- Most tests are run in duplicate over 3 separate days
- All testing must to be completed within 4 to 6 weeks of receiving the sample

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.

Interested in the program?

- Step 1:** Complete the form to the right.
- 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:** After we receive your introduction pack, 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.



*In vitro diagnostic medical devices — Requirements for establishing metrological traceability of values assigned to calibrators, trueness control materials and human samples

**Medical laboratories — Requirements for quality and competence, Risk Management

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

AcroMetrix PeliSpy NAT MM 375	1.0 mL	50 vials	RUO	
AcroMetrix NATBBV- (formerly NAT Negative)	1.4 mL	10 vials	CE-IVD	
AcroMetrix HIVRNA+ (formerly PeliSpy Pro HIV Low)	1.4 mL	10 vials	CE-IVD	
AcroMetrix HBVDNA+ (formerly PeliSpy Pro HBV Low)	1.4 mL	10 vials	CE-IVD	
AcroMetrix HCVRNA+ (formerly PeliSpy Pro HCV Low)	1.4 mL	10 vials	CE-IVD	
AcroMetrix WNV RNA	1.4 mL	10 vials	CE-IVD, IVD	
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)

AcroMetrix PeliSpy Sero Control Type 17 HBsAg, anti-HCV, anti-HIV, anti-HTLV	5.0 mL	10 vials	RUO	
AcroMetrix PeliSpy Sero Control Type 36 HBsAg, anti-HCV, anti-HIV, anti-HTLV, anti-HBc	5.0 mL	10 vials	RUO	
AcroMetrix PeliSpy Sero Control Negative	5.0 mL	10 vials	RUO	
AcroMetrix Blue 5pk (formerly PSMM Type 38) HBsAg, anti-HCV, anti-HIV-1	5.0 mL	5 vials	CE-IVD	



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 **suitable 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



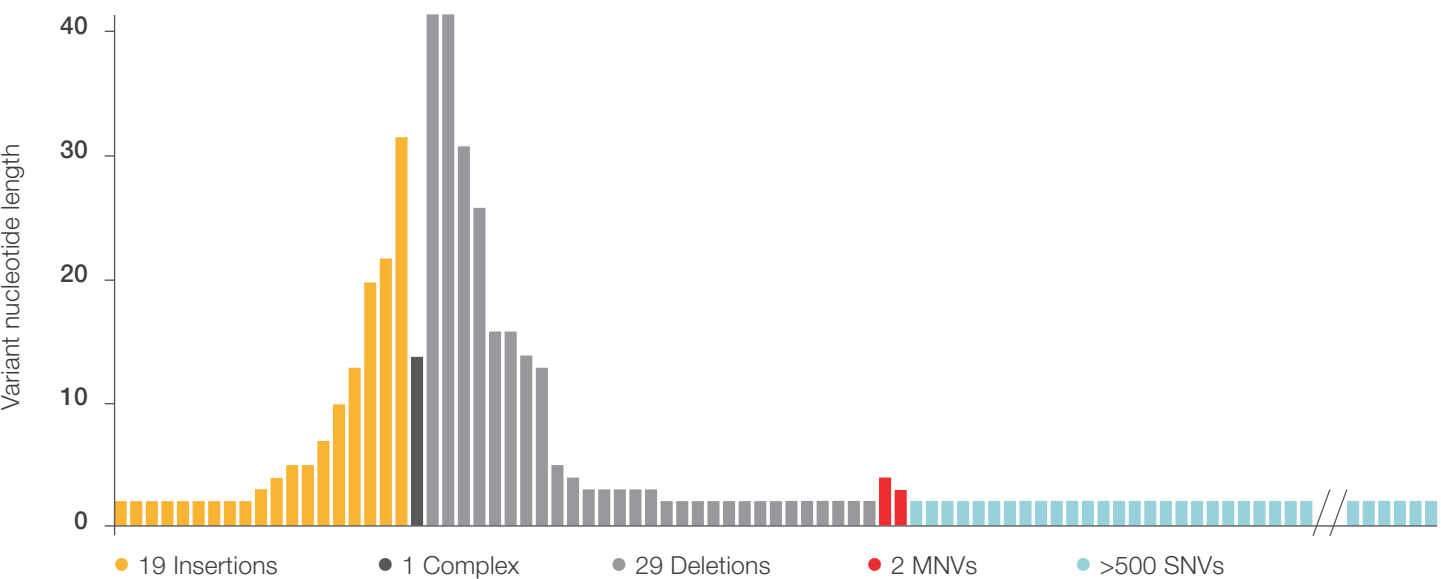
53
genes



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

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

[illegible]

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

Analyte	References																	
	9	9	14	8	16	15	17	16	12	4	5	6	6	13	11	17	13	10
Page	9	9	14	8	16	15	17	16	12	4	5	6	6	13	11	17	13	10
Alcohol/Ammonia																		
Bilirubin																		
CardioImmune•XL																		
chemTRAK•H																		
CSF																		
Diabetes																		
DOA TOTAL																		
Immunology																		
Liquimmune																		
Omni•CARDIO																		
Omni•CORE II																		
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 Positive																		
HIV p24																		
anti-HBs Positive																		
Syphilis Positive																		
Infectious Negative																		
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)																		
CK-MB																		

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

*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.

†Only available in the Max version of the control.

Reference | Analytes

Analyte	References																	
	Page	9	9	14	8	16	15	17	16	12	4	5	6	6	13	11	17	13
		Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE II	Omni•Immune	Omni•Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker
Carbon Dioxide (CO ₂)				◆								◆						
Cocaine (Benzoyllecgonine)								◆										
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				◆								◆						
Hemoglobin (Urine Test)															◆		◆	◆

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

◆ - Analyte present. ■ - No claim is made for expected values or the stability of these constituents.
†Only available in the Max version of the control.

Reference | Analytes

Analyte	References																	
	Page	9	9	14	8	16	15	17	16	12	4	5	6	6	13	11	17	13
		Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE II	Omni•Immune	Omni•Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker
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				◆						◆		◆	◆	◆	◆			
Procalcitonin (PCT)											◆		◆	◆				
Procainamide				◆						◆		◆	◆	◆	◆			
Progesterone										◆			◆	◆				
Prolactin										◆			◆	◆			◆	
Properdin Factor B									◆									
Propoxyphene							◆											
Protein Electrophoresis					◆													
Prostate Specific Antigen, Total (TPSA)										◆			◆	◆			◆	
Prostate Specific Antigen, Free (FPSA)										◆			◆	◆			◆	
Pseudochoolinesterase (PCHE)				◆								◆						
Quinidine				◆						◆		◆	◆	◆	◆			
Red Blood Cells (Urine Test)																	◆	◆
Rheumatoid Factor (RF)									◆			◆						

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

Analyte	References																	
	Page	9	9	14	8	16	15	17	16	12	4	5	6	6	13	11	17	13
		Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	LiquiImmune	Omni•CARDIO	Omni•CORE II	Omni•Immune	Omni•Immune PRO	PAR TDM	Sentry Urine Dipstick Control	TOX Control	T-Marker
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 Blood Cells (Urine Test)																	◆	◆
Zinc												◆						

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

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Notes

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The value of innovation A history of quality

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