thermoscientific

Thermo Scientific Product Catalog

Drugs of Abuse Testing, Drug Monitoring, Instrumentation, and Quality Control Products

ThermoFisher SCIENTIFIC

Experience our Quality

Improve your results

Contents

The value of innovation

An enduring history of serving science

From routine chemistries to highly sensitive tests that will enable the discovery of new biomarkers for disease diagnosis, the latest immunoassay techniques are built on the foundation of radio-immunoassay (RIA). This revolutionary concept was developed for measurement of endogenous plasma insulin by Solomon Berson and Rosalyn Yalow in 1959. Working together as a team, these two scientists proposed the use of the interaction between antibodies and antigens to detect the presence or quantify the concentration of specific analytes in human body fluids. An isotope of a radioactive element was used to label antibodies and antigens.

Researchers and clinicians worldwide soon began to recognize the exciting potential of this breakthrough technique and numerous laboratories were built and equipped to conduct tests that required the use of radioisotopes. As the technology was fine-tuned, RIAs for many new analytes were published. Although the RIA technique was valued for its sensitivity and specificity, there was growing concern about workplace safety, the expense of the equipment required for handling radioactive materials and the ability to properly dispose radioactive waste.

The limitations of the RIA combined with continued innovation in biomedical research created the perfect environment to take immunoassays in a new direction. The Enzyme Immunoassay (EIA) and the Enzyme-Linked Immunosorbent Assay (ELISA) were envisioned in the 1960s, but it took almost a decade for researchers to demonstrate conclusively that the EIA/ELISA was the next step in building a new generation in immunoassays. These techniques replaced radioisotopes with enzymes in the labeling of antigens and antibodies which could then be detected by spectrophotometric means. The first tests were not as precise and sensitive as the RIA; however, improvements in techniques accelerated during the 1970s.

Today Thermo Scientific™ CEDIA™ technology is the platform supporting a broad menu of immunoassays for drugs of abuse screening, therapeutic and immunosuppressant drug monitoring and toxicology testing.

Cloned Enzyme Donor Immunoassay technology (CEDIA) was developed by Microgenics (Thermo Fisher Scientific) in the early 1980s.

This homogeneous enzyme immunoassay has proven to be one of the important advancements in the evolution of immunoassays, enabling the automation of the immunoassay test and facilitating its transition from speciality laboratories to general labs and clinical settings. Today CEDIA technology is the platform supporting a broad menu of immunoassays.

Thermo Fisher Scientific continues to forge the way with new immunoassays for drugs of abuse screening and therapeutic drug monitoring.

The full potential of the homogeneous enzyme immunoassay is just beginning to be explored. Thermo Fisher Scientific continues to forge the way with new immunoassays for drugs of abuse screening and therapeutic drug monitoring that provide customized solutions for large reference and hospital-based laboratories as well as a growing list of non-traditional testing venues such as the workplace, government institutions, drug detection and treatment programs, and physician offices and clinics.

We never forget

That behind every assay performed is a story

During the mid 1990s, Thermo Fisher Scientific introduced its DRI™ product line. The marketplace reception to these liquid, ready-to-use assays was unparalleled. Increased lab productivity, low cost per test and short turnaround times without sacrificing precision, accuracy and lot-to-lot consistency were right on target with clinical laboratory needs. More recently, we have strengthened our technological leadership with the introduction of the Quantitative Microsphere System (QMS). Our cutting edge Thermo Scientific™ QMS™ assays are the culmination of more than two decades of research and development in the application of microparticle technology to immunodiagnostics.

The QMS method employs advanced particle technology to develop a wide range of particle-enhanced turbidimetric immunoassays for use on automated chemistry analyzers.

Around the world thousands of Thermo Scientific assays are loaded every day on a wide range of testing platforms.

At Thermo Fisher Scientific, we have been at the forefront of enzyme-based turbidimetric immunoassay evolution for more than three decades. The spectrum of our integrated products and services offers both breadth and depth in the areas of drugs of abuse, specimen validity testing and toxicology testing; therapeutic and immunosuppressive drug monitoring; and quality control and data management.

The synergy of multiple technologies, a robust menu of homogenous enzyme immunoassays optimized for most clinical chemistry analyzers and the global reach of our customer-responsive training and product support has made Thermo Scientific products the preferred resource for reference and hospital laboratories and other drug monitoring facilities.

That's why our research and development endeavors are driven by a sense of urgency and guided by the spirit of innovation.

Around the world thousands of Thermo Scientific assays are loaded every day on a wide range of testing platforms. While we are proud of the trust our customers have placed in us we never lose sight of the fact that behind every assay performed is a story – men, women, and children facing challenges and uncertainty with hope for a healthier future. That's why our research and development endeavors are driven by a sense of urgency and guided by the spirit of innovation.

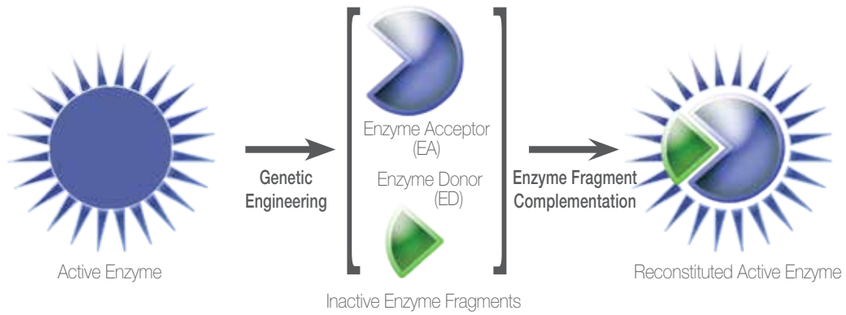
One Resource
Multiple Technologies

CEDIA

Thermo Scientific™ CEDIA™ method is a single phase, competitive binding process that combines analyte-specific antibodies and two genetically engineered fragments of the bacterial enzyme ß-galactosidase to accurately and reliably detect the presence of drugs and their metabolites as well as other substances in serum, plasma, whole blood, urine, and oral fluids.

Benefits

- Guaranteed consistency: kit-to-kit, lot-to-lot, year-to-year
- Lower limits of detection of analytes in test matrix
- Linear dose response curve
- Accurate and specific results
- Excellent low-end sensitivity and specificity
- Urine, oral fluids, serum, plasma, and whole blood



CEDIA Technology: genetic engineering of enzyme fragments.

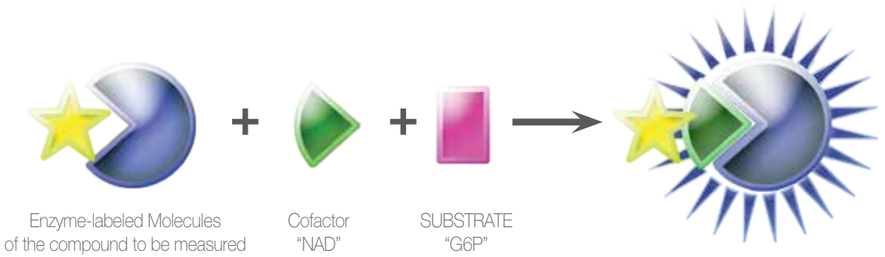
DRI

Thermo Scientific™ DRI™ products are proven and trusted testing solutions that offer high analytical accuracy while eliminating time-consuming steps in reagent preparation.

DRI technology is based on the competition between a drug or drug metabolite labeled with the enzyme glucose-6-phosphate dehydrogenase (G6PDH) and free drug from the sample for a fixed amount of specific antibody binding sites. In the absence of free drug from the sample, the specific antibody binds to the drug labeled with G6PDH. As a result, enzyme activity is inhibited.

Benefits

- Applications for low, medium and high volume laboratories
- Assays optimized for most clinical chemistry analyzers
- Minimizes unnecessary confirmations
- Accurate and specific results
- Excellent low-end sensitivity and specificity
- Guaranteed consistency: kit-to-kit, lot-to-lot, year-to-year



DRI Technology
G6PDH in the presence of Cofactor and Substrate forms NADH.
The NADH absorbs light at 340 nm.

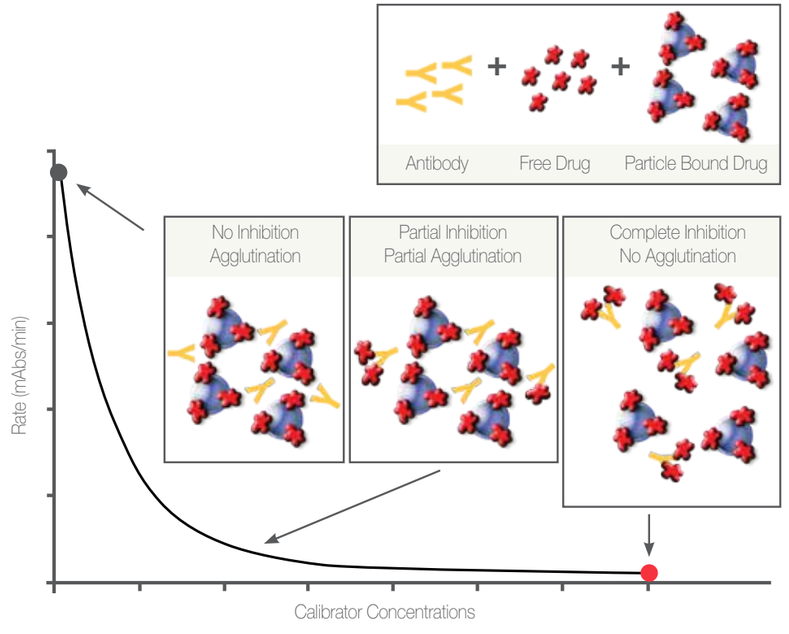
QMS

Thermo Scientific™ QMS™ (Quantitative Microsphere System) assays are particularly well suited to measuring therapeutic drugs in whole blood, serum or plasma.

Our QMS two component assay system is based on the competitive inhibition immunoassay principle: If the drug targeted by the assay is present in the sample, these free drug molecules compete with a microparticle-bound drug in one reagent for a limited number of antibody combining sites supplied by antibody in a second reagent. The competition for antibody binding sites inhibits the ability of the antibody to agglutinate the drug-coated microparticles.

Benefits

- Excellent sensitivity and precision
- Optimal dynamic range
- High specificity and accuracy to target analyte
- Does not involve enzymes and chemical substrates
- Low interference from endogenous substances
- Whole blood, serum and plasma



QMS Technology: time-saving convenience and reduced costs.

Complete solutions
for drug monitoring

Assays, Calibrators and Controls

- Drugs of Abuse for Urine
- Specimen Validity Tests
- Endocrine and Serum Toxicology
- Therapeutic Drug Monitoring
- Immunosuppressive Drug Management

Thermo Scientific CEDIA and DRI Assays

For Drugs of Abuse Testing (DAT)

Product	CEDIA			DRI		
	TSC 3 x 17 mL	MCC 65 mL	LC 495 mL	68 mL	100 mL	500 mL
AB-PINACA (Synthetic Cannabinoids) - CJ&F*		10022977				
Amphetamine					0017	0018
Amphetamine/Ecstasy	100104	100103	100040			
Barbiturate	100084	100093	1661213		0225	0226
Benzodiazepine	100085	100094	1775561		0039	0040
Buprenorphine	100190	100240				
Buprenorphine II		10020850				
Cocaine	100086	100095	1661230		0055	0056
Cotinine					0394	0395
Ecstasy					100075	100076
Ecstasy Plus						10024631
Ethyl Alcohol					0037	0038
Ethyl Glucuronide (EtG) - CE†				10011297		
Ethyl Glucuronide (EtG) - CJ&F*				10015894		10015893
Fentanyl - CJ&F*						10016005
Heroin Metabolite (6-Acetylmorphine)	100107	100108	100186			
Hydrocodone‡						10018053
LSD	1732137 (15 mL)					
Methadone	100088	100097	1730916		0596	0597
Methadone Metabolite	100087	100096	1868217		100115	100116
Methaqualone					0514	0515
Opiate	100089	100098	1661248		0135	0136
Opiate 2K		100099	1815296			
Oxycodone				100248		100249
Phencyclidine (PCP)	100172	100173	1815784		0160	0161
Propoxyphene (PPX)	100170	100171	1661523		0432	0433
THC (Cannabinoid)	100091	100100	1661256		0185	0186
UR-144/XLR-11 (Synthetic Cannabinoids) - CJ&F*		10022955				

For use with the Thermo Scientific Indiko and Indiko Plus Systems

Product	CEDIA	DRI
	Indiko 3 x 17 mL	Indiko 3 x 18 mL
AB-PINACA (Synthetic Cannabinoids) - CJ&F*	10022971	
Amphetamine		10014585
Amphetamine/Ecstasy	10016417	
Barbiturate	10017365	10015648
Benzodiazepine	10016409	10015644
Buprenorphine	10015658	
Buprenorphine II	10020849	
Cocaine	10016413	10014593
Cotinine		10018516
Ecstasy		10014681
Ethyl Alcohol		10016397
Ethyl Glucuronide (EtG) - CJ&F*		10016154
Ethyl Glucuronide (EtG) - CE†		10015626
		10011723 (1x18mL)
Fentanyl - CJ&F*		10016006
Fentanyl - CE†		10016437
Heroin Metabolite (6-Acetylmorphine)	10015213	
Hydrocodone‡		10018054
Methadone	10016425	10016403
Methadone Metabolite	10016421	10018522
Opiate	10016429	10014601
Oxycodone		10015632
Phencyclidine (PCP)		10014673
Propoxyphene (PPX)		10018510
THC (Cannabinoids)	10016433	10014665
UR-144/XLR-11 (Synthetic Cannabinoids) - CJ&F*	10022949	

Drugs of Abuse Tests (DAT) in Urine

Now, the most extensive menu of drugs of abuse assays are available as "Open and Go" system reagents on our self-contained bench-top analyzer, the Thermo Scientific Indiko. Our system packaged reagents are bar-coded to allow flexibility and ease of use for the end user.

Indiko is an efficient, cost effective, automated bench top chemistry system designed for up-load and walk-away convenience. Intuitive user interface and many automated features help to manage the daily workflow. The self-contained Indiko, with its small footprint, fits ideally in laboratories with space limitations.

Specialty Products	Size	Cat #
β-Glucuronidase	5 mL	127680

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Thermo Scientific CEDIA Calibrators

For Drugs of Abuse Testing (DAT)

Calibrators	Size (mL)	Part #	Assay	ng/mL	Assay	ng/mL
Negative Calibrator	5 15	**1557416** **1661388**	Multiple Assays	0	Multiple Assays	0
Multi-Drug Primary Clinical Calibrator	5	**1730401**	Amphetamine Barbiturate Benzodiazepine Cocaine	1000 300 300 300	Methadone Metabolite Opiate Phencyclidine	100 300 25
Multi-Drug Primary Calibrator	5 15	**1815326** **1815334**	Amphetamine Barbiturate Benzodiazepine Cocaine	1000 300 300 300	Methadone Metabolite Opiate Phencyclidine	100 2000 25
Multi-Drug Secondary Calibrator	5 15	**1730428** **1730517**	Amphetamine Barbiturate Benzodiazepine Cocaine	500 200 200 150	Methadone Metabolite Opiate Phencyclidine	100 300 25
Multi-Drug Optional Calibrator	5	**100033**	Amphetamine Barbiturate Benzodiazepine Cocaine	300 200 200 300	Methadone Metabolite Opiate	100 300
Multi-Drug Intermediate Calibrator	5 15	**1730380** **1732218**	Amphetamine Barbiturate Benzodiazepine Cocaine	3000 800 800 2000	Methadone Metabolite Opiate Phencyclidine	500 800 75
Multi-Drug High Calibrator	5 15	**1730398** **1732226**	Amphetamine Barbiturate Benzodiazepine Cocaine	5000 3000 5000 5000	Methadone Metabolite Opiate Phencyclidine	2000 2000 150
Propoxyphene (PPX) / Methadone						
Cutoff Calibrator Intermediate Calibrator High Calibrator	5	**1662848** **1662856** **1662864**	Propoxyphene	300 1200 5000	Methadone	300 600 1000

Calibrators	Size (mL)	Part #	Assay	ng/mL
AB-PINACA (Synthetic Cannabinoids) - CJ&F*				
Negative Calibrator III	10	**10022930**	AB-PINACA (Synthetic Cannabinoids)	0
AB-PINACA Calibrator	5	**10022931**		5
AB-PINACA Calibrator	5	**10022932**		20
AB-PINACA Calibrator	5	**10022933**		50
AB-PINACA Calibrator	5	**10022934**		100
Buprenorphine				
Negative Calibrator	7.5	**100241**	Buprenorphine	0
Buprenorphine Calibrator	5	**100242**		5
Buprenorphine Calibrator	5	**100243**		20
Buprenorphine Calibrator	5	**100244**		50
Buprenorphine Calibrator	5	**100245**		75
Buprenorphine II				
Negative Calibrator II	7.5	**10021390**	Buprenorphine	0
Buprenorphine II Calibrator	5	**10020799**		10
Buprenorphine II Calibrator	5	**10020800**		20
Buprenorphine II Calibrator	5	**10020801**		50
Buprenorphine II Calibrator	5	**10020802**		100
Heroin Metabolite				
Cut-Off Calibrator High Calibrator	5	**100031** **100034**	6-Acetylmorphine	10 20
LSD				
Cut-Off Calibrator Intermediate Calibrator High Calibrator	5	**1732153** **1732161** **1732196**	d-LSD	0.5 1.5 3
Multi-Level THC				
Multi-Level THC Calibrators	15	**1557505** **1557513** **1557521** **1557530** **1557548**	11-nor-Δ⁹THC-COOH	25 50 75 100 150
UR-144/XLR-11 (Synthetic Cannabinoids) - CJ&F*				
Negative Cal II (UR-144)	7.5	**10022753**	UR-144 (Synthetic Cannabinoids)	0
UR-144 Calibrator	5	**10022754**		10
UR-144 Calibrator	5	**10022755**		20
UR-144 Calibrator	5	**10022756**		40
UR-144 Calibrator	5	**10022759**		60

Analyzer Applications

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Thermo Scientific DRI Calibrators

For Drugs of Abuse Testing (DAT)

Calibrators	Size (mL)	Part #	Assay	ng/mL	Assay	ng/mL
Negative Cal	10 25	**1664** **1388**	Multiple Assays	0	Multiple Assays	0
Multi-Drug Urine Cal 1	10 25	**1588** **1589**	Amphetamine Barbiturate Benzodiazepine Cocaine Methadone	500 100 100 150 150	Methaqualone Opiate Phencyclidine Propoxyphene	150 1000 12.5 150
Multi-Drug Urine Cal 2	10 25	**1591** **1592**	Amphetamine Barbiturate Benzodiazepine Cocaine Methadone	1000 200 200 300 300	Methaqualone Opiate Phencyclidine Propoxyphene	300 2000 25 300
Multi-Drug Urine Cal 3	10 25	**1594** **1595**	Amphetamine Barbiturate Benzodiazepine Cocaine Methadone	1500 500 500 500 500	Methaqualone Opiate Phencyclidine Propoxyphene	500 4000 50 500
Multi-Drug Urine Cal 4	10 25	**1597** **1598**	Amphetamine Barbiturate Benzodiazepine Cocaine Methadone	2000 1000 1000 1000 1000	Methaqualone Opiate Phencyclidine Propoxyphene	1000 6000 100 1000
Low Urine Cal	5	**0034**	Amphetamine Cocaine	1000 300	Opiate Phencyclidine	300 25
High Urine Cal	5	**0036**	Amphetamine Cocaine	2000 3000	Opiate Phencyclidine	1000 100

Calibrators	Size (mL)	Part #	Assay	ng/mL
Opiate				
150 ng/mL Cal 500 ng/mL Cal	25	**1609** **1610**	Opiate	150 500
Multi-Level THC				
20 ng/mL Cal	5 25	**0235** **1397**	11-nor-Δ⁹THC-COOH	20
50 ng/mL Cal		**0042** **1398**		50
100 ng/mL Cal		**0044** **1399**		100
200 ng/mL Cal		**0206** **1400**		200
Ethyl Alcohol				
Negative Alcohol Cal	5 25	**0311** **1405**	Ethyl Alcohol	0 mg/dL
100 mg/dL Cal	5 25	**0241** **1406**		100 mg/dL
Ethyl Glucuronide (EtG) - CJ&F*				
ETG Negative Cal	25	**10015932**	Ethyl Glucuronide	0
ETG 100 Cal	10	**10015933**		100
ETG 500 Cal	10	**10015935**		500
ETG 1000 Cal	10	**10015938**		1000
ETG 2000 Cal	10	**10015940**		2000
Ethyl Glucuronide (EtG) - CE†				
ETG Negative Cal	25	**10011207**	Ethyl Glucuronide	0
ETG 100 Cal	10	**10011208**		100
ETG 500 Cal	10	**10011210**		500
ETG 1000 Cal	10	**10011212**		1000
ETG 2000 Cal	10	**10011213**		2000
Ecstasy / Ecstasy Plus				
250 ng/mL Ecstasy Cal	10	**100082**	Ecstasy / Ecstasy Plus	250
500 ng/mL Ecstasy Cal		**100081**		500
750 ng/mL Ecstasy Cal		**100080**		750
1000 ng/mL Ecstasy Cal		**100079**		1000
Cotinine Cal Kit				
0 ng/mL Cotinine Cal 100 ng/mL Cotinine Cal 250 ng/mL Cotinine Cal 500 ng/mL Cotinine Cal 1000 ng/mL Cotinine Cal 2000 ng/mL Cotinine Cal	5	**0404**	Cotinine	0 100 250 500 1000 2000
Hydrocodone‡				
100ng/mL Hydrocodone Cal	10	**10018079**	Hydrocodone	100
300ng/mL Hydrocodone Cal		**10018080**		300
500ng/mL Hydrocodone Cal		**10018081**		500
1000ng/mL Hydrocodone Cal		**10018082**		1000
Methadone Metabolite				
150 ng/mL Meth Metab Cal	10	**100117**	EDDP	150
300 ng/mL Meth Metab Cal		**100118**		300
1000 ng/mL Meth Metab Cal		**100120**		1000
2000 ng/mL Meth Metab Cal		**100122**		2000
Oxycodone				
100 ng/mL Oxycodone Cal	10	**100250**	Oxycodone	100
300 ng/mL Oxycodone Cal		**100251**		300
500 ng/mL Oxycodone Cal		**100252**		500
1000 ng/mL Oxycodone Cal		**100253**		1000
Fentanyl - CJ&F*				
Fentanyl 2 ng/mL Cal	10	**10016023**	Fentanyl	2
Fentanyl - CE†				
Fentanyl 2 ng/mL Cal	10	**10016485**	Fentanyl	2

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Thermo Scientific CEDIA, DRI, and MAS Controls

For Drugs of Abuse Testing (DAT)

Controls	Size (mL)	Part #	Assay	Low	High
MGC Primary DAU Control Set	3 x 5	**100200**	Amphetamine (d-methamphetamine)	750	1250
			Barbiturate (secobarbital)	150	250
			Benzodiazepine (oxazepam)	150	250
			Cocaine (benzoylecgonine)	225	375
			Methadone (methadone)	225	375
			Methadone Metabolite (EDDP)	750	1250
			Methaqualone (methaqualone)	225	375
			Opiate 2000 (morphine)	1500	2500
			Phencyclidine (PCP)	19	31
			Propoxyphene (PPX)	225	375
MGC Clinical DAU Control Set	3 x 5	**100201**	Amphetamine (d-methamphetamine)	375	625
			Barbiturate (secobarbital)	225	375
			Benzodiazepine (nitrazepam)	225	375
			Cocaine (benzoylecgonine)	225	375
			Methadone (methadone)	225	375
			Methadone Metabolite (EDDP)	75	125
			Opiate 300 (morphine)	225	375
			Phencyclidine (PCP)	19	31
			Propoxyphene (PPX)	225	375
MGC Select DAU Control Set	3 x 5	**100202**	Benzodiazepine (nitrazepam)	150	250
			Cocaine (benzoylecgonine)	112.5	187.5
			Ecstasy (MDMA)	375	625
			Heroin Metabolite (6-Acetylmorphine)	7.5	12.5
			LSD	0.3	0.7
MGC Optional DAU Control Set	2 x 5	**100069**	Amphetamine (d-methamphetamine)	225	375
			Barbiturate (secobarbital)	150	250
			Benzodiazepine (nitrazepam)	150	250
			Cocaine (benzoylecgonine)	225	375
			Methadone Metabolite (EDDP)	75	125
			Opiate 300 (morphine)	225	375
MGC Specialty DAU Control Set	3 x 5	**1815440**	Amphetamine (d-methamphetamine)	375	625
			Barbiturate (secobarbital)	150	250
			Benzodiazepine (nitrazepam)	150	250
			Cocaine (benzoylecgonine)	112.5	187.5
			Methadone Metabolite (EDDP)	75	125
			Opiate 300 (morphine)	225	375

Controls	Size (mL)	Part #	Assay	Low	High
CEDIA Single Analyte Controls					
AB-PINACA Control Set - CJ&F*					
AB-PINACA Control Set	2 x 5	**10022935**	AB-PINACA (Synthetic Cannabinoids)	10	30
Buprenorphine Control Sets					
Buprenorphine Control Set	2 x 5	**100246**	Buprenorphine	3	7
Buprenorphine II Control Set		**10020804**		7.50	12.50
Multi-Level THC Control Sets					
THC 25 Control Set	2 x 15	**1661086**	11-nor-Δ^9THC-COOH	18.75	31.25
THC 50 Control Set		**1661078**		37.50	62.50
THC 100 Control Set		**1661060**		75	125
UR-144/XLR-11 Control Set - CJ&F*					
UR-144 Control Set	2 x 5	**10022760**	UR-144 (Synthetic Cannabinoids)	5	15
DRI Single Analyte Controls					
Cotinine Controls					
Low Cotinine Control	5	**0460**	Cotinine	300	
High Cotinine Control		**0470**			700
Ecstasy Plus Control					
Ecstasy Plus Control	25	**10024435**	MDA		650
Ethyl Alcohol Controls					
50 mg/dL Ethyl Alcohol Control	5	**0239**	Ethyl Alcohol	50	
300 mg/dL Ethyl Alcohol Control		**0243**			300
Ethyl Glucuronide (EtG) Controls - CJ&F*					
ETG 375 Control	25	**10015934**	Ethyl Glucuronide	375	
ETG 625 Control		**10015936**			625
ETG 750 Control		**10015937**		750	
ETG 1250 Control		**10015939**			1250
Ethyl Glucuronide (EtG) Controls - CE†					
ETG 375 Control	25	**10012135**	Ethyl Glucuronide	375	
ETG 625 Control		**10012136**			625
ETG 750 Control		**10012137**		750	
ETG 1250 Control		**10012138**			1250
Fentanyl Controls - CJ&F*					
1 ng/mL Fentanyl Control	25	**10016022**	Fentanyl	1	
3 ng/mL Fentanyl Control		**10016024**			3
Fentanyl Controls - CE†					
1 ng/mL Fentanyl Control	25	**10016484**	Fentanyl	1	
3 ng/mL Fentanyl Control		**10016486**			3
Hydrocodone Control Set‡					
Hydrocodone Control	10	**10018149**	Hydrocodone	225	375
Oxycodone Control Set					
100 ng/mL Oxycodone Controls	10	**100254**	Oxycodone	75	125
300 ng/mL Oxycodone Controls		**100255**		225	375
THC Controls					
40 ng/mL THC Urine Control	5	**0170**	11-nor-Δ^9THC-COOH	40	
		1401		40	
60 ng/mL THC Urine Control	25	**0168**			60
		1402			60
75 ng/mL THC Urine Control		**0214**		75	
125 ng/mL THC Urine Control		**0212**			125
		1404			125
MAS DOA Total Controls					
DOAT-1 Level 1 (Negative)	6 x 18	**DOAT-1**	Refer to MAS DOA Total Control, page 60 for specific target analytes and concentrations.		
DOAT-2 Level 2		**DOAT-2**			
DOAT-3 Level 3		**DOAT-3**			
DOAT-4 Level 4 (SAMHSA -25%)		**DOAT-4**			
DOAT-5 Level 5 (SAMHSA +25%)		**DOAT-5**			
DOAT-6 Level 6		**DOAT-6**			
DOAT-MP Multi-Pack		**DOAT-MP**			

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Thermo Scientific Specimen Validity

Assays, Reagents, Calibrators, and Controls

Indentify Adulterated Samples

The use of additives and adulterants to mask controlled substances in urine samples is a difficult and ongoing challenge to drugs of abuse screening. We offer the industry's most extensive menu of detection tests.

As new adulterant trends sweep through the testing pool, rely on our fast-track product development team to deliver a timely, economical detection solution.

All of our urine adulteration assays are liquid, ready-to-use and can be performed on a variety of general chemistry analyzers.

The adulteration assays provide a complete and automated way to test for sample integrity and adulteration.

Associated Calibrators and Controls are offered in convenient sizes.

Reagent Kits

Catalog #	Description	Kit Size (mL)
1797	DRI™ Creatinine-Detect™	500
10015638	DRI Creatinine-Detect for Indiko	3 x 18

Catalog #	Description	Kit Size (mL)
10009958	DRI™ General Oxidant-Detect™	2 x 500
10018528	DRI General Oxidant-Detect for Indiko	6 x 18

Catalog #	Description	Kit Size (mL)
1194	DRI™ Gravity-Detect™	2 x 500
10018532	DRI Gravity-Detect for Indiko	6 x 18

Catalog #	Description	Kit Size (mL)
100054	DRI™ pH-Detect™	2 x 500
10015654	DRI pH-Detect for Indiko	6 x 18

Catalog #	Description	Kit Size (mL)
1815555	CEDIA™ Sample Check	85
10016443	CEDIA Sample Check for Indiko	3 x 18

Calibrators and Controls

Catalog #	Kit Size (mL)	Description (mg/dL)	Cut-off Levels
100272	2 x 25	Creatinine Calibrator	2.0 & 20
100273	25	Creatinine Control	1.3
100274			7.5
100275			23

Catalog #	Kit Size (mL)	Description (µg/mL)	Cut-off Levels
10009971	2 x 25	General Oxidant Calibrator	0 & 200
10009972	2 x 25	General Oxidant Control	100 & 300

Catalog #	Kit Size (mL)	Description	Cut-off Levels
1754	2 x 25	Low Gravity Calibrator	1.010
1755	25	High Gravity Calibrator	1.025
1756		Level 1 Gravity Control	1.015
1757		Level 2 Gravity Control	1.030

Catalog #	Kit Size (mL)	Description	pH Level
100283	2 x 25	pH-Detect Calibrator	3.0 & 11.0
10024403			4.0 & 11.0
100282	25	pH-Detect Control	3.6
10024083			4.5*
100284			7.0
100285			10.5
100281			11.5

Catalog #	Kit Size (mL)	Description	Cut-off Levels
1557416	5	CEDIA Negative Calibrator	0
1661388	15		0
1815571	3 x 5	CEDIA Sample Check Control Set	NA

* For sale in the USA only

Analyzer Applications

Applications are available for major clinical analyzers. Please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.

Thermo Scientific Endocrine

Assays, Calibrators, and Controls

Endocrine Assays

To round out your routine chemistry profile, the T4 and T Uptake endocrine products are available in both CEDIA and DRI formats. They are packaged in convenient sizes and have applications on a multitude of clinical chemistry analyzers. Similar to our TDM and Drugs of Abuse products, these products provide excellent workflow management, cost savings, and superior performance.

CEDIA Assays*

Catalog #	Description	Kit Size (mL)
100050	T4 SC Open System	39, 24
100049	T Uptake LC Open System	2 x 588, 2 x 191

DRI Reagents

Catalog #	Description	Kit Size (mL)
0723	T Uptake	100, 34
0454	Total Thyroxine (T4)	100, 34
10013070	Total Thyroxine (T4)	500, 170

* Calibrators are included in the reagent kit.

Calibrators and Controls for DRI T Uptake Assay

Catalog #	Kit Size (mL)	Description	T Uptake (%)
0738	5 bottles x 2 mL ea	T Uptake Calibrator 1	15
		T Uptake Calibrator 2	20
		T Uptake Calibrator 3	30
		T Uptake Calibrator 4	40
		T Uptake Calibrator 5	50

Calibrators and Controls for DRI T4 Assay

Catalog #	Kit Size (mL)	Description	Thyroxine (µg/dL)
0476	6 bottles x 2 mL ea	Thyroxine Negative Cal	0
		Thyroxine Cal 1	2
		Thyroxine Cal 2	4
		Thyroxine Cal 3	8
		Thyroxine Cal 4	12
		Thyroxine Cal 5	20

MAS Liquimmune Controls

Catalog #	Kit Size (mL)	Description	T Uptake (%)
MAS Control LIG-101	6 x 5	Liquimmune Level 1	See page 58 for more information
MAS Control LIG-202	6 x 5	Liquimmune Level 2	
MAS Control LIG-303	6 x 5	Liquimmune Level 3	

Analyzer Applications

Applications are available for major clinical analyzers. Please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.

Thermo Scientific Serum Toxicology

Assays, Calibrators, and Controls

Serum Toxicology

The Serum Toxicology assays are excellent tools for physicians in an emergency room situation. When urine specimens are not conveniently available, these serum-based assays are used to identify the class of drug of the overdose. The Serum Toxicology Tricyclics assay has the added flexibility of analyzing serum or urine samples.

Assays

Catalog #	Description	Kit Size (mL)
1086	Acetaminophen	25, 8
0911	Barbiturate	25, 8
0920	Benzodiazepine	25, 8
1128	Tricyclics (TCA)	25, 8

Calibrators and Controls for Acetaminophen Assay

Catalog #	Kit Size (mL)	Description Analyte	Acetaminophen (µg/mL)
1091	5	Acetaminophen Neg Calibrator	0
	2	Acetaminophen 10 Calibrator	10
	2	Acetaminophen 25 Calibrator	25
	2	Acetaminophen 50 Calibrator	50
	2	Acetaminophen 100 Calibrator	100
	2	Acetaminophen 200 Calibrator	200

Calibrators and Controls for Serum Toxicology

Catalog #	Kit Size (mL)	Description (ng/mL)	Serum Barbiturate	Serum Benzodiazepine	Serum Tricyclics
0962	5	Negative Calibrator*	0	0	0
0963	5	Calibrator 1	500	25	150
0965	5	Calibrator 2	1000	50	300
0967	5	Calibrator 3	3000	100	500
0976	5	Calibrator 4	6000	200	1000
10011608	6 x 5	MAS TOX Control Level 1 - 3*	See page 60 for more information		

* For use with Serum Tox Barbiturate, Benzodiazepine, Tricyclics (TCA)

MAS PAR TDM Controls

Catalog #	Kit Size (mL)	Description Analyte (µg/mL)
PTD1-1001‡	6 x 5	PAR TDM Level 1
PTD2-2002‡	6 x 5	PAR TDM Level 2
PTD3-3003‡	6 x 5	PAR TDM Level 3

‡ For use with Serum Tox Acetaminophen

Analyzer Applications

Applications are available for major clinical analyzers. Please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.

Thermo Scientific CEDIA and DRI TDM

Assays, Calibrators, and Controls

Backed by a proven track record of reliable results and trouble-free performance on a wide range of analyzers, we have been manufacturing TDM Assays since 1986.

CEDIA TDM Assays

Catalog #	Description	Kit Size (mL)
100006	Carbamazepine	17, 17
100016	Gentamicin II	13, 11
100015	NAPA	17, 17
100003	Phenobarbital II	17, 17
100002	Phenytoin II	17, 17
100014	Procainamide	17, 17
100008	Theophylline II	17, 17
100018	Tobramycin II	13, 11
100013	Valproic Acid	13, 11

DRI TDM Assays

Catalog #	Description	Kit Size (mL)
1669	Digoxin**	25, 8
1669-A	Digoxin#	25, 8

Calibrators are included in the reagent kit.
** For International Use only - not for sales in USA

MAS PAR TDM† Controls for TDMs

Catalog #	Description	Kit Size (mL)
PTD1-1001	Par TDM Level 1	6 x 5
PTD2-2002	Par TDM Level 2	6 x 5
PTD3-3003	Par TDM Level 3	6 x 5

† Refer to analyte lists beginning on page 70.

CEDIA TDM Assays with Multi Constituent Calibrators

CORE	CARDIAC	ANTIBIOTIC
Carbamazepine	**Digoxin**	**Gentamicin**
Phenobarbital	**NAPA**	**Tobramycin**
Phenytoin	**Procainamide**	
Theophylline		
Valproic Acid		

CEDIA MultiDrug Calibrators

Catalog #	Kit Size	Description	NAPA* µg/mL	Procainamide* µg/mL	Carbamazepine* µg/mL	Phenobarbital II* µg/mL	Phenytoin II* µg/mL	Theophylline II* µg/mL	Valproic Acid µg/mL	Gentamicin II µg/mL	Tobramycin II µg/mL
100001	2 x 7.5	TDM Cardiac Cal Low	♦	♦							
	2 x 5.0	TDM Cardiac Cal High	♦	♦							
100007	2 x 7.5	TDM Core Cal Low			♦	♦	♦	♦	♦		
	2 x 5.0	TDM Core Cal High			♦	♦	♦	♦	♦		
100017	2 x 7.5	TDM Antibiotic Cal Low								♦	♦
	2 x 5.0	TDM Antibiotic Cal High								♦	♦

* Calibrator concentrations for each assay are printed on a calibrator value assignment card and are located in each TDM calibrator kit

Analyzer Applications

Applications are available for major clinical analyzers. Please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.

Thermo Scientific TDM

QMS Assays, Calibrators, and Controls

Advanced microparticle technology is the foundation for a broad menu of QMS™ particle enhanced turbidimetric immunoassays for therapeutic and immunosuppressive drug management. Clinicians in the fields of infection, epilepsy, cardiology and organ transplantation have found QMS assays are particularly well suited to measuring therapeutic drugs in whole blood, serum or plasma.

Developed for use on general chemistry analyzers, the QMS liquid-ready-to-use format has been proven to be a convenient alternative to more expensive and time-consuming assays employing HPLC or LC/MS technologies. In side-by-side comparisons, QMS assays have demonstrated:

Excellent correlation to reference methods

Optimal sensitivity, precision and dynamic range

Exceptional reliability, precision and lot-to-lot consistency

Low cross-reactivity with metabolites and commonly co-administered drugs

Low interference from endogenous substances

Our QMS two-component assay system is based on the competitive inhibition immunoassay principle: If the drug targeted by the assay is present in the sample, these free drug molecules compete with a microparticle-bound drug in one reagent for a limited number of antibody combining sites supplied by antibody in a second reagent. The competition for antibody binding sites inhibits the ability of the antibody to agglutinate the drug-coated microparticles. The degree that agglutination is inhibited is directly related to the concentration of the target drug in the sample.

In the absence of competing free-drug in the sample, the drug-coated microparticle reagent is rapidly agglutinated in the presence of the antibody reagent. The rate of absorbance change is measured photometrically and is proportional to the rate of agglutination of the microparticles.

QMS TDM Assays

Catalog #	Description	Kit Size (mL)
0373910	Amikacin Reagent Kit	2 x 19, 2 x 7
10017107	Gentamicin Reagent Kit	19, 8
0373795	Lamotrigine Reagent Kit	19, 19
0374686	Lidocaine Reagent Kit	2 x 18, 2 x 9
0373936	Quinidine Reagent Kit	2 x 19, 2 x 7
0374645	Teicoplanin Reagent Kit*	21, 9
10017109	Tobramycin Reagent Kit	14, 12
0374140	Topiramate Reagent Kit	22, 16
0373589	Vancomycin Reagent Kit	22, 22
0373571	Zonisamide Reagent Kit	2 x 22, 2 x 8

QMS TDM Controls

Catalog #	Description	Kit Size
0374090	Lamotrigine Control Set	3 Levels 1 x 2.5 mL ea
0374660	Teicoplanin Control Set*	3 Levels 1 x 2.0 mL ea
0374181	Topiramate Control Set	3 Levels 1 x 2.0 mL ea
0373373	Zonisamide Control Set	3 Levels 1 x 2.5 mL ea

* For international use only - not for sale in the USA

QMS TDM Calibrators

Catalog #	Description	Kit Size
0374157	Amikacin Calibrators	Levels A-F 1 x 1 mL ea
0373902	Gentamicin Calibrators	Levels A-F 1 x 1 mL ea
0373787	Lamotrigine Calibrators	Level A 1 x 2 mL ea Levels B-F 1 x 1 mL ea
0374678	Lidocaine Calibrators	Levels A-F 1 x 1 mL ea
0374165	Quinidine Calibrators	Levels A-F 1 x 1 mL ea
0374652	Teicoplanin Calibrators*	Level A 1 x 2 mL ea Levels B-F 1 x 1 mL ea
0374116	Tobramycin Calibrators	Levels A-F 1 x 1 mL ea
0374173	Topiramate Calibrators	Levels A-F 1 x 1 mL ea
0373597	Vancomycin Calibrators	Levels A-F 1 x 1 mL ea
0373381	Zonisamide Calibrators	Level A 1 x 2.5 mL ea Levels B-F 1 x 1 mL ea

Analyzer Applications

Applications are available for major clinical analyzers. Please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.

Thermo Scientific Immunosuppressant

Drug Management

Immunosuppressant drug testing

One of the most effective therapies for patients with end-stage organ failure is solid organ transplantation. Typically, one or more immunosuppressive drugs (ISD) are used to prevent rejection of transplanted organs and tissues. Periodic measurements of a drug's concentrations are performed to allow physicians to make adjustments to the patient's drug therapy, ensuring long-term success. Immunosuppressant drug monitoring can be done by several methods; the most common is immunoassay.

Thermo Fisher Scientific offers the most comprehensive menu of Immunosuppressant Drug Monitoring assays which are recognized worldwide for their ease-of-use, quality, performance, and lot-to-lot consistency.

Accurate

- **Excellent low-end sensitivity**
- **Correlation with gold standard methods**
- **Lot-to-lot consistency**

Efficient

- **Improved turn-around-time**
- **Applications for a variety of analyzers**

Convenient

- **Simple sample preparation step**
- **Broad dynamic range for Cyclosporine (25–2000 ng/mL)**
- **Mix and Run reagent systems or liquid, ready to use**

ISD Assays

Catalog #	Description	Kit Size (mL)
100147	CEDIA Cyclosporine PLUS*	41, 19
0380000	QMS Everolimus	22, 8
0373852	QMS Everolimus**	22, 8
100276	CEDIA Mycophenolic Acid	26, 11
10015556	QMS Tacrolimus	18, 12

* Low Range CsA calibrators are included in the reagent kit
** For International use only - not for sale in USA

ISD Calibrators and Controls

Catalog #	Description	Kit Size
100012	CsA PLUS High Cal Set	4 x 2 mL each level, low and high
100277	Mycophenolic Acid Calibrator Set	2 x 5 mL 2 ea level
100278	Mycophenolic Acid Control 1	4 x 5 mL each level, low and high
100279	Mycophenolic Acid Control 2	4 x 5 mL each level, low and high
100280	Mycophenolic Acid Control 3	4 x 5 mL each level, low and high
0380005	QMS Everolimus Calibrator Set	6 levels, 1 bottle each 3 mL
0373860	QMS Everolimus Calibrator Set**	6 levels, 1 bottle each 3 mL
0380010	QMS Everolimus Control Set	3 Levels, 1 bottle each, 3 mL
0373878	QMS Everolimus Control Set	3 levels, 1 bottle each 3 mL
10015573	QMS Tacrolimus Calibrator Set	6 levels, A 4 mL, B-F 2 mL ea

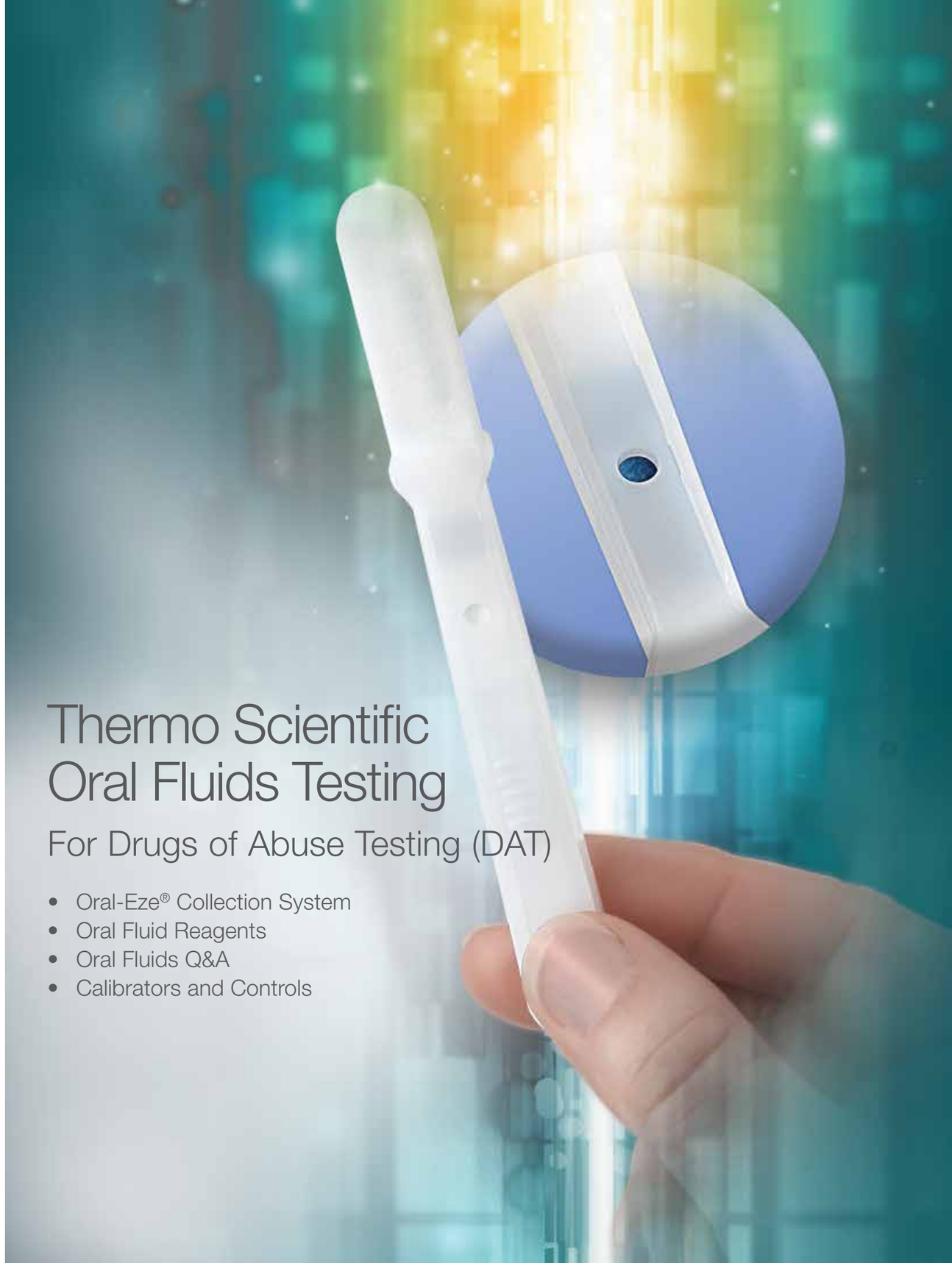
** For International use only - not for sale in USA

Multiconstituent Immunosuppressant Controls

for use with Cyclosporine and Tacrolimus			Target Values	
Catalog #	**Description**	**Kit Size (mL)**	**CsA**	**TACRO**
280-1	Rap/Tac/CsA Control Level 1 - blue	4 x 4	Refer to value assignment sheet	
280-2	Rap/Tac/CsA Control Level 2 - green	4 x 4		
280-3	Rap/Tac/CsA Control Level 3 - red	4 x 4		

Analyzer Applications

Applications are available for major clinical analyzers. Please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.



Thermo Scientific Oral Fluids Testing

For Drugs of Abuse Testing (DAT)

- Oral-Eze® Collection System
- Oral Fluid Reagents
- Oral Fluids Q&A
- Calibrators and Controls

Thermo Scientific Oral Fluids Testing

Oral-Eze System for Drugs of Abuse Testing (DAT)

Oral Fluid Testing using Oral-Eze Collection System

Our innovative oral fluid collection system simplifies the collection of oral samples for routine drug testing.

The Oral-Eze® Oral Fluid Collection System provides all the advantages of previous collection systems, with the added benefit of our indicator window technology. The indicator window takes the guesswork out of collecting samples and turns blue when the sample quantity is sufficient for processing, thereby reducing repeat collections.

Oral-Eze Collection System

Description	50/kit	500/kit
Oral-Eze Collection Device	96100-050	96100-500
Oral-Eze Sample Extractor	96105-050	96105-500

Description	1L/kit
Oral-Eze Preservative Buffer	10015531

Collection Process:

1. Collect

The donor inserts the Oral-Eze Collection Device between the lower cheek and gum.

2. Check

When the indicator window on the handle turns blue, the collector is removed.

3. Detach

The collection pad is inserted into the transport tube and detached from the collector.

4. Cap

The cap is pressed until completely sealed and a tamper-evident seal is placed across the top and down the sides of collection tube. Ship the specimen to the testing laboratory.

Thermo Scientific Oral Fluid Assays

For Drugs of Abuse Testing (DAT)

Oral Fluids for North America

Description	REAGENT KITS		
	1 x 65 mL	1 x 495 mL	3 x 17 mL
Amphetamine OFT	10014947	10021729	10018579
Barbiturates OFT*	10022348		
Benzodiazepines OFT*	10022349		
Buprenorphine OFT*	10022352		
Cannabinoids OFT	10014910	10021737	10018585
Cocaine OFT	10014764	10021745	10018590
Methadone OFT*	10022350		
Methamphetamine OFT	10014949	10021753	10018595
Opiate OFT	10014873	10021778	10018600
Oxycodone OFT*	10022351		
PCP OFT	10014888	10021786	10018605

* These test kits are intended solely for use in employment and insurance testing, and does not include test systems intended for Federal drug testing programs (e.g., programs run by the Substance Abuse and Mental Health Services Administration (SAMHSA), the Department of Transportation (DOT), and the U.S. military).
** For International use only - not for sale in USA. Product availability may vary by country.

Oral Fluids for International**

Description	REAGENT KITS	
	3 x 17 mL	1 x 65 mL
Amphetamine OFT	10011931	10011932
Cannabinoids OFT	10010883	10010888
Cocaine OFT	10014734	10014740
Methamphetamine OFT	10011934	10011936
Opiate OFT	10010612	10010659
PCP OFT	10010619	10010665

Analyzer Applications

For applications information on clinical analyzers please contact your local Thermo Scientific Sales Representative, Authorized Distributor or Thermo Scientific Technical Service Representative for available applications.

Oral-Eze Q&A

Q: Are the Oral-Eze® Collection System and the Oral Fluid drug tests FDA-cleared?

A: The Oral-Eze Collection System and the Amphetamine, Cannabinoids, Cocaine, Methamphetamine, Opiate, and PCP Assays are FDA-cleared. The Barbiturates, Benzodiazepines, Buprenorphine, Methadone, and Oxycodone assays are FDA-exempt.

Q: What are the benefits of using the Oral-Eze Collection Device?

A: The Oral-Eze Collection Device has a built-in indicator for determining when a sufficient quantity of oral fluid has been collected. This will reduce the number of tests that are reported as “quantity insufficient”. Another benefit is that the oral fluid collector does not have a salty or citric taste.

Q: Is the pad safe to put in my mouth?

A: Yes, the pad is a cotton-fiber filter paper that has not been treated with any salts or flavorings.

Q: How long does it take to collect an oral fluid sample with Oral-Eze?

A: The collection is complete when the indicator window turns blue. This typically occurs within 3-5 minutes although all donors are different. Before beginning the collection, instruct the donor to pool their saliva. Ask them to refrain from swallowing and talking, instead directing that saliva towards the device. Ensure that they keep the device in their mouth for the allotted time or until the indicator window turns blue.

Q: What is the liquid in the vial?

A: The liquid is a buffer, preservative solution that stabilizes the oral fluid sample and helps prevent the sample and drugs/metabolites from deteriorating during storage or shipping to the laboratory.

Q: Will recent oral surgery (root canals, extraction’s, etc.) or sutures make a difference?

A: Neither will affect the collection; however, if sutures are located between the lower cheek and gum, it is better to collect the sample from the opposite side of the mouth.

Q: When collecting an oral fluid specimen, I noticed a small amount of blood on the collection pad. Is this normal?

A: Although this is not common, it may occur in some individuals and should not adversely affect the specimen collected.

Q: What is the best practice for transferring the pad from the collector to the tube?

A: Once the indicator window turns blue, instruct the donor to remove the pad from the mouth. Place the pad of the device into the buffer tube. Using the thumb, place on the ridge of the collector handle and slide toward the pad to detach the pad into the buffer. If the pad does not immediately detach, use the lid on the tube to withdraw the pad from the collection handle. It may be more difficult to detach if the pad is not sufficiently saturated.

Q: How long is the specimen stable after it has been collected?

A: The specimen and any drugs in the specimen are stable for 21 days after collection. Non-negative specimens tested by the laboratory are stable for at least one year when stored frozen.

Thermo Scientific Oral Fluid

Calibrators & Controls for Drugs of Abuse Testing (DAT)

Oral Fluid Calibrators for USA

CEDIA OFT	NEGATIVE CALIBRATORS			CUT-OFF CALIBRATORS			
	Part Number	Description	Kit Size (mL)	Part Number	Description	Kit Size (mL)	Cut-off (ng/mL)
Amphetamine	10014954	CEDIA Multi-Drug	1 x 20	10014955	CEDIA Multi-Drug	1 x 10	50
Cocaine							5
Opiate							10
Phencyclidine (PCP)							1
Barbiturates				10022355*	CEDIA Multi-Drug Set B	1 x 10	20
Benzodiazepines							1
Methadone							5
Oxycodone							10
Buprenorphine				10022376*	CEDIA Buprenorphine	1 x 5	1
Methamphetamine	10014950	CEDIA Methamphetamine	1 x 10	10014951	CEDIA Methamphetamine	1 x 5	40
Cannabinoids (THC)	10014922	CEDIA THC	1 x 10	10014923	CEDIA THC	1 x 5	1

Oral Fluid Controls for USA

CEDIA OFT	CONTROLS				
	Part Number	Description - OFT Calibrator	Kit Size (mL)	Control-Low (ng/mL)	Control-High (ng/mL)
Amphetamine	10014957	CEDIA Multi-Drug Control Set	2 x 15	25	75
Cocaine				2.5	7.5
Opiate				5	15
Phencyclidine (PCP)				0.5	1.5
Barbiturates	10022356*	CEDIA Multi-Drug Control Set B	2 x 15	10	30
Benzodiazepines				0.5	1.5
Methadone				2.5	7.5
Oxycodone				5	15
Buprenorphine	10022377*	CEDIA Buprenorphine Control Set	2 x 10	0.5	1.5
Methamphetamine	10014953	CEDIA Methamphetamine Control Set	2 x 10	20	60
Cannabinoids (THC)	10014925	CEDIA THC Control Set	2 x 10	0.5	1.5

*These test kits are intended solely for use in employment and insurance testing, and does not include test systems intended for Federal drug testing programs (e.g., programs run by the Substance Abuse and Mental Health Services Administration (SAMHSA), the Department of Transportation (DOT), and the U.S. military).

United Kingdom Oral Fluid Cut-Off Calibrators and Controls

CEDIA OFT	Cut-Off Calibrators			
	Part Number	Description	Kit Size (mL)	Cut-off Cal (ng/mL)
Amphetamine	10016894	CEDIA Multi-Drug	1 x 10	10.0
Cocaine				5.0
Opiate				10.0
Methamphetamine	10016807	CEDIA Methamphetamine	1 x 5	10.0
Cannabinoids (THC)	10016730	CEDIA THC	1 x 5	1.0

CEDIA OFT	Controls				
	Part Number	Description	Kit Size (mL)	Low Control (ng/mL)	High Control (ng/mL)
Amphetamine	10016895	CEDIA Multi-Drug	2 x 15	5.0	15.0
Cocaine				2.5	7.5
Opiate				5.0	15.0
Methamphetamine	10016808	CEDIA Methamphetamine	2 x 10	5.0	15.0
Cannabinoids (THC)	10016731	CEDIA THC	2 x 10	0.5	1.5

Australia Oral Fluid Calibrators and Controls

CEDIA OFT	Negative Calibrators			Calibrators					
	Part Number	Description	Kit Size (mL)	Part Number	Description	Kit Size (mL)	Cal 1 (ng/mL)	Cal 2 (ng/mL)	Cal 3 (ng/mL)
Amphetamine	10016864	CEDIA Multi-Drug Negative Calibrator	1 x 20	10016882	CEDIA Multi-Drug Calibrator 1	1 x 10	10.0	17.0	40.0
Cocaine				10016883	CEDIA Multi-Drug Calibrator 2				30.0
Opiate				10016884	CEDIA Multi-Drug Calibrator 3				40.0
Methamphetamine	10016344	CEDIA Methamphetamine Negative Calibrator	1 x 10	10016362	CEDIA Methamphetamine Calibrator 1	1 x 5	10.0	17.0	40.0
				10016363	CEDIA Methamphetamine Calibrator 2				
				10016364	CEDIA Methamphetamine Calibrator 3				
Cannabinoids (THC)	10016643	CEDIA THC Negative Calibrator	1 x 10	10016700	CEDIA THC Calibrator 1	1 x 5	5.0	8.0	13.0
				10016701	CEDIA THC Calibrator 2				
				10016702	CEDIA THC Calibrator 3				

CEDIA OFT	Controls					
	Part Number	Description	Kit Size (mL)	Control 1 (ng/mL)	Control 2 (ng/mL)	Control 3 (ng/mL)
Amphetamine	10017711	CEDIA Multi-Drug Control 1	1 x 15	13.0	17.0	25.0
Cocaine	10017712	CEDIA Multi-Drug Control 2				
Opiate	10017713	CEDIA Multi-Drug Control 3				
Methamphetamine	10017686	CEDIA Methamphetamine Control 1	1 x 10	13.0	17.0	25.0
	10017687	CEDIA Methamphetamine Control 2				
	10017688	CEDIA Methamphetamine Control 3				
Cannabinoids (THC)	10017702	CEDIA THC Control 1	1 x 10	6.0	8.0	10.0
	10017703	CEDIA THC Control 2				
	10017704	CEDIA THC Control 3				

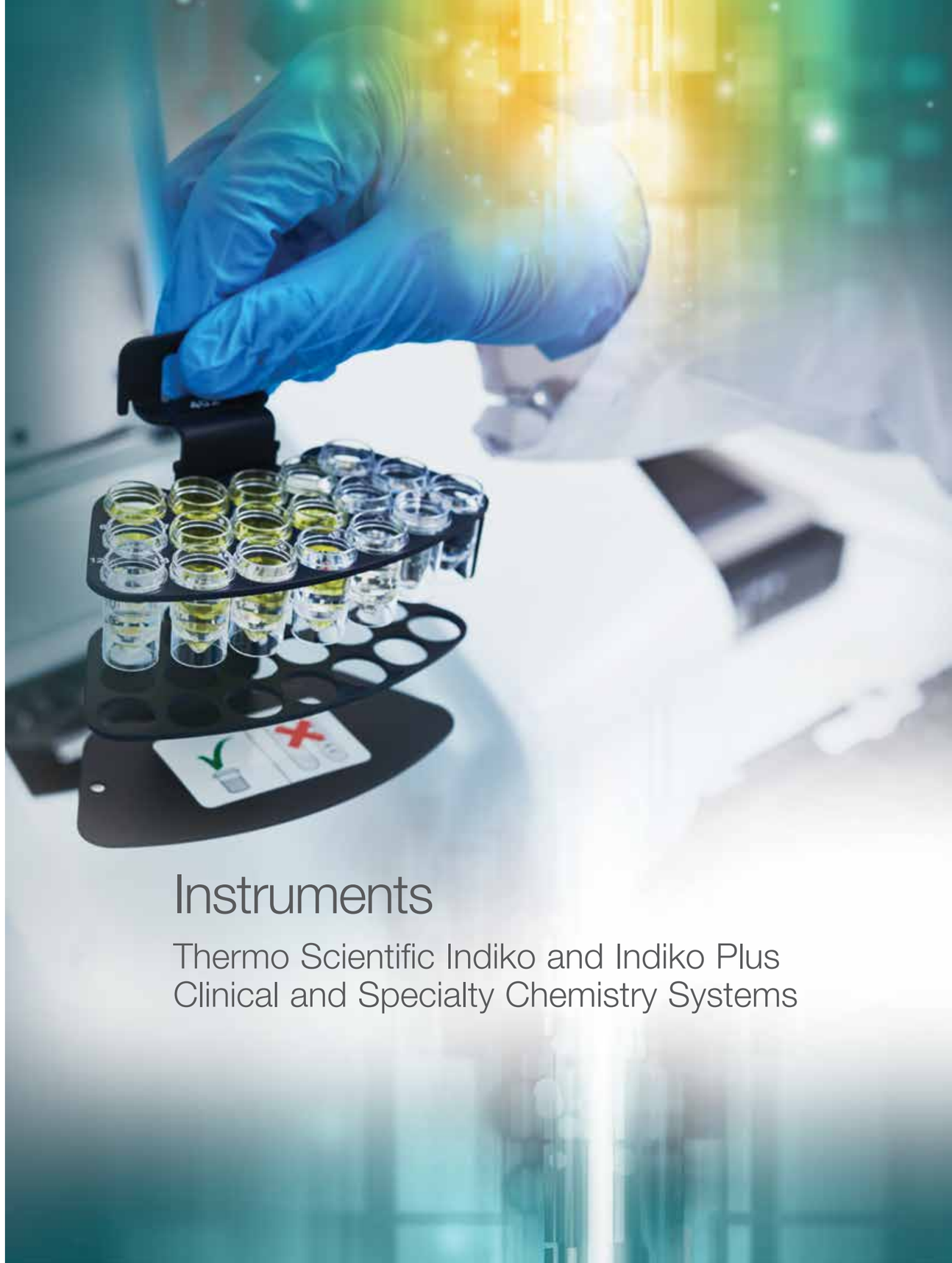
Thermo Scientific Oral Fluid (continued)

Calibrators & Controls for Drugs of Abuse Testing (DAT)

Europe Oral Fluid Calibrators and Controls

CEDIA OFT	Negative Calibrators			Calibrators						
	Part Number	Description	Kit Size (mL)	Part Number	Description	Kit Size (mL)	Cal 1 (ng/mL)	Cal 2 (ng/mL)	Cal 3 (ng/mL)	Cal 4 (ng/mL)
Amphetamine	10016864	CEDIA Multi-Drug Negative Calibrator	1 x 20	10016865	CEDIA Multi-Drug Calibrator 1	1 x 10	6.7	13.3	40.0	100.0
Cocaine				10016866	CEDIA Multi-Drug Calibrator 2		5.0	10.0	30.0	75.0
Opiate				10016867	CEDIA Multi-Drug Calibrator 3		6.7	13.3	40.0	100.0
Phencyclidine (PCP)				10016868	CEDIA Multi-Drug Calibrator 4		2.0	3.3	10.0	20.0
Methamphetamine	10016344	CEDIA Methamphetamine Negative Calibrator	1 x 10	10016345	CEDIA Methamphetamine Calibrator 1	1 x 5	6.7	13.3	40.0	100.0
				10016346	CEDIA Methamphetamine Calibrator 2					
				10016347	CEDIA Methamphetamine Calibrator 3					
				10016348	CEDIA Methamphetamine Calibrator 4					
Cannabinoids (THC)	10016643	CEDIA THC Negative Calibrator	1 x 10	10016644	CEDIA THC Calibrator 1	1 x 5	1.7	3.3	10	20
				10016646	CEDIA THC Calibrator 2					
				10016647	CEDIA THC Calibrator 3					
				10016648	CEDIA THC Calibrator 4					

CEDIA OFT	Controls				
	Part Number	Description	Kit Size (mL)	Low Control (ng/mL)	High Control (ng/mL)
Amphetamine	10016869	CEDIA Multi-Drug Control Set	2 x 15	6.7	20.0
Cocaine				5.0	15.0
Opiate				6.7	20.0
Phencyclidine (PCP)				1.7	5.0
Methamphetamine	10016349	CEDIA Methamphetamine Control Set	2 x 10	6.7	20.0
Cannabinoids (THC)	10016649	CEDIA THC Control Set	2 x 10	1.7	5.0



Thermo Scientific Indiko
Specialty Chemistry Systems

Thermo Scientific™ Indiko™ and Indiko Plus clinical and specialty chemistry analyzers

Fully automated, sample oriented, random access benchtop analyzer

Thermo Scientific Indiko Plus is a fully automated, sample oriented random access analyzer for clinical and special chemistries, including therapeutic drug monitoring, drugs of abuse screening and immunosuppressant drug tests*. The Indiko Plus analyzer employs colorimetric end-point and kinetic as well as turbidimetric and bichromatic reactions with or without sample blanking.

* Application availability may vary from country to country. Please contact your local sales representative for more information.

- Convenient on-site testing
- Improved laboratory efficiency and turnaround time
- Flexibility in instrument placement
- Continuous access to samples and reagents without interrupting test processing
- Automatic reagent and sample identification via internal barcode reader
- Real-time Quality Control program

Ready-to-use Drugs of Abuse screening assays for Indiko benchtop analyzers

Our experience in drugs of abuse testing allows us to anticipate new drug screening challenges and have leading edge solutions available when needed. Our multiple technologies provide important advantages of integrating both Thermo Scientific™ DRI™ and Thermo Scientific™ CEDIA™ technologies into your testing program.

URINE			ORAL FLUID	SERUM
DRI Assays	**CEDIA Assays**	**Specimen Validity Tests**	**CEDIA Oral Fluid (OFT) Assays**	**Toxicology Assays**
Amphetamine	Amphetamine/Ecstasy	Creatinine	Amphetamine	Barbiturate
Barbiturate	Barbiturate	General Oxidant	Cannabinoid	Benzodiazepine
Benzodiazepine	Benzodiazepine	pH	Cocaine	Tricyclics
Cannabinoid	Buprenorphine	Sample Check†	Methamphetamine	
Cocaine	Cannabinoid	Specific Gravity	Opiate	
Cotinine	Cocaine		Phencyclidine (PCP)	
Ecstasy	Heroin Metabolite			
Ethyl Alcohol	Methadone			
Ethyl Glucuronide	Methadone Metabolite			
Fentanyl	Opiate			
Methadone				
Methadone Metabolite				
Opiate				
Oxycodone				
Phencyclidine (PCP)				
Propoxyphene (PPX)				

† For international use only - not for sale in the USA .

The Indiko and Indiko Plus are fully automated bench top analyzers for drug monitoring and specialty testing

The Indiko and Indiko Plus Analyzers are easy to use, cost-effective systems designed for load-up and walk-away convenience. The intuitive user interface and many automated features help to manage the daily workflow. The self-contained Indiko and Indiko Plus analyzers, with their small footprints, fit ideally into laboratories with space limitations.

Flexible, easy operation

- Intuitive user interface with touch-screen option
- Streamlined information management with various reporting options, and advanced result inventory management
- A mix of sample cups and bar-coded primary tubes can be used
- Automatic start-up protocol
- Loadable application data, calibrator, and control values

True walk-away analysis

- Different sample types can be analyzed at the same time
- Real-time QC program with multiple Westgard rules
- Continuous access to samples, reagents and cuvettes without interrupting the testing process
- Up to two hours walk-away time

Cost-effective solution

- Unique, low-volume cuvette technology
- Very low volume of samples (2 to 120 uL) and reagents (2 to 240 uL) result in overall low waste
- Real-time QC program assures reliable performance
- Minimal daily maintenance maximizes analyzer uptime
- Water consumption: 1.5 liter/hour

Thermo Scientific Indiko & Indiko Plus

Specialty Chemistry Systems

Indiko

System Specifications	
Capacity	Up to 200 tests per hour for 1 reagent assays, approximately 100 tests per hour for 2 reagent assays
Dimensions and Weight	29.5 in / 75 cm (W) x 27.6 in / 70 cm (D) x 24.4 in / 62 cm (H), 51 in / 130 cm (H) with cover open, 187 lbs / 85 kg
Power Supply	100 - 240 V ± 10%, 50 - 60 Hz, ± 5%, 250 W
Average Noise Level at 1 meter	< 60 dB (A)
Deionized Water Consumption	1.5 liters/hour
Environmental Conditions	Operating temperature range 18 to 30 ºC, humidity 40 - 80% (non-condensing)
Regulatory	Confirms with CAN/CSA-C22.2 No. 61010-1-04
	FDA clearance, 510(k) number: k110035 (Indiko 98630000)
	98/79/EC IVD MD Directive
Filter Rate	340 - 700 nm
Measurement Temperature	37 ºC
Light Source	Xenon Flash Lamp
Absorbance Range	0 - 3.5 A, resolution of 0.001 A and reproducibility of SD <0.005A at 2A
Reaction Vessels	
On-board Capacity	360 measurement cells - 36 cuvettes with 10 reaction cells each, up to 2 hour walk-away time
Reaction End Volume	120 - 300 µL
Samples and Reagents	
On-board Capacity	Maximum 6 racks in the cooled disk. 9 or 18-position sample rack and 6-position reagent rack
Sample Volume Size	2 - 120 µL
Sample Containers	0.5 mL, 2.0 mL cups and sample tubes (diameter 12 - 16 mm, length 75 - 100 mm)
Sample Barcode	Code 128 and barcodes USS Codabar, Interleaved 2 of 5 and Code 39 with a check digit
Reagent Volumes	2- 240 µL
Reagent Containers	10 mL and 20 mL vials
Sample and Reagent Dispensing	CV ≤ 2% for volumes ≥ 2 µL
Calibration	Factor, Bias, linear, logit-log, spline, polynomial and point-to-point calibration
Data Management	
Windows® Workstation	Data input online, via mouse, keyboard, barcode reader, and touch screen (optional)
LIS Interface	CLSI LIS02-A2
Hardware Interface	RS-232 or TCP/IP
Result Reports	Collated by sample, manual entry of off-line results allowing for fully collated result reports, results calculated from both measured and off-line results. Abnormal values and repeats flagged automatically.
Traceability	Full traceability with long term storage of results including associated calibrations and reagent lot data.

Ordering Information

Catalog Number	Description
98630000	Indiko
98631000	Indiko with ISE**
98640000	Indiko Plus
98641000	Indiko Plus with ISE**
PC accessories ordered based on geographic area	

** For International use only - not for sale in USA

Indiko Plus

System Specifications	
Capacity	Up to 350 tests per hour for 1 reagent assays, approximately 200 tests per hour for 2 reagent assays
Dimensions and Weight	37 in / 94 cm (W) x 27.6 in / 70 cm (D) x 24.4 in / 62 cm (H), 51 in / 130 cm (H) with cover open, 242 lbs / 110 kg
Power Supply	100 - 240 V ± 10%, 50 - 60 Hz, ± 5%, 300 W
Average Noise Level at 1 meter	< 60 dB (A)
Deionized Water Consumption	2.5 liters/hour
Environmental Conditions	Operating temperature range 18 to 30 ºC, humidity 40 - 80% (non-condensing)
Regulatory	Confirms with CAN/CSA-C22.2 No. 61010-1-04
	FDA clearance, 510(k) number: k110035 (Indiko 98640000)
	98/79/EC IVD MD Directive
Filter Rate	340 - 700 nm
Measurement Temperature	37 ºC
Light Source	Xenon Flash Lamp
Absorbance Range	0 - 3.5 A, resolution of 0.001 A and reproducibility of SD <0.005A at 2A
Reaction Vessels	
On-board Capacity	360 measurement cells - 36 cuvettes with 10 reaction cells each, 1 to 3 hour walk-away time depending on workload
Reaction End Volume	120 - 300 µL
Samples and Reagents	
Sample On-board Capacity	54 - 108 samples; 9 or 18-position sample rack; maximum 6 racks
Sample Volume Size	2 - 120 µL
Sample Containers	0.5 mL, 2.0 mL cups and sample tubes (diameter 12 - 16 mm, length 75 - 100 mm)
Sample Barcode	Code 128 and barcodes USS Codabar, Interleaved 2 of 5 and Code 39 with a check digit
Sample Dispensing	CV ≤ 2% for volumes ≥ 2 µL
Reagent Volumes	2- 240 µL
Reagent Containers	10 mL and 20 mL vials, 42 positions in the cooled disk
Sample and Reagent Dispensing	CV ≤ 2% for volumes ≥ 2 µL
Calibration	Factor, bias, linear, logit-log, spline, polynomial and point-to-point calibration
Data Management	
Windows® Workstation	Data input online, via mouse, keyboard, barcode reader, and touch screen (optional)
LIS Interface	CLSI LIS02-A2
Hardware Interface	RS-232 or TCP/IP
Result Reports	Collated by sample, manual entry of off-line results allowing for fully collated result reports, results calculated from both measured and off-line results. Abnormal values and repeats flagged automatically.
Traceability	Full traceability with long term storage of results including associated calibrations and reagent lot data.

Consumable Ordering Information

Part Number	Description	Kit Configuration
986000	TENCELL™ cuvettes	1 box (10,800 pcs)
989220	0.5 mL sample cups	1000 pcs
989221	2 mL sample cups	1000 pcs
984050	10 mL reagent bottles	5 pcs
981456	20 mL reagent bottles	16 pcs
SP06662	Reagent rack	3 pcs
SP06666	Sample rack	6 pcs
984030	Washing solution 4.5%	4 x 20 mL
981712	Tubing maintenance solution	6 x 20 mL
10017332	Sample tubes 13 x 75 mL	1000/pk
10017331	Nesting cups 1 mL	1000/pk
10021544	Indiko Plus Installation	
10021546	Indiko Plus Service Contract	
10021545	Indiko Plus Validation and Training	

Thermo Scientific MAS

- Quality Control Products
- Quality Assurance Program
- LabLink XL Quality Assurance Program

Thermo Scientific MAS

Omni Controls

Streamline your workflow
Consolidate multiple QC products

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. Value assignment is provided for key instrument systems including Abbott Architect, Beckman Coulter Access, AU and UniCel systems, Ortho Clinical Diagnostics VITROS, Roche Cobas and Elecsys systems and Siemens Advia, Dimension, Dimension Vista, Immulite and Stratus systems.

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

Analytes

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

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

Omni Controls

Omni•CORE

Thermo Scientific™ MAS™ Omni•CORE™ Controls consolidate general chemistry and serum protein QC processing into a single product, offering three distinct levels. Value assignment is provided for key integrated instrument systems, including Abbott Architect, Beckman Coulter AU, Synchron and UniCel, Ortho Clinical Diagnostics Vitros, Roche Cobas and Elecsys systems and Siemens Advia, Dimension and Dimension Vista.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
OCR-101	1	6 x 5 mL Assayed	36 month shelf life @ -25 to -15 ºC 30 days open vial @ 2 to 8 ºC (Bilirubin is 15 days open vial @ 2 to 8 ºC)	Human Serum
OCR-202	2			
OCR-303	3			

Analytes

General Chemistry
Albumin
Alkaline Phosphatase (ALT/GPT)
Alanine Aminotransferase (ALT)
Amylase
Amylase (Pancreatic)*
Aspartate Aminotransferase (AST/GOT)
Bile Acids*
Bilirubin, Conjugated
Bilirubin, Direct (DBIL)
Bilirubin, Neonatal
Bilirubin, Total (TBIL)
Bilirubin, Unconjugated
Blood Urea Nitrogen (BUN)
Calcium
Carbon Dioxide (CO2)
Chloride
Cholesterol
Cholesterol, HDL
Cholesterol, LDL
Copper*
Creatine Kinase (CK)
Creatinine
Gamma-Glutamyl Ttransferase (GGT)
Glucose
Lactate Dehydrogenase (LDH)
Lactic Acid
Lipase
Magnesium
Osmolality
Phosphorus
Potassium
Pseudocholinesterase (PCHE)
Sodium
Total Protein
Triglycerides
Uric Acid
Zinc

TDM/Toxicology Tests
Acetaminophen
Amikacin
Caffeine
Carbamazepine
Digoxin
Disopyramide
Ethanol
Ethosuximide
Gentamicin
Lidocaine
Lithium
Methotrexate
N-acetylprocainamide (NAPA)
Phenobarbital
Phenytoin
Primidone
Procainamide
Quinidine
Salicylate
Theophylline
Tobramycin
Tricyclic Antidepressants (TCA)
Valproic Acid
Vancomycin

Anemia/Iron Deficiency Tests
Ferritin
Iron
Iron Binding Capacity (IBC)
Iron Binding Capacity, Total (TIBC)
Iron Binding Capacity, Unsaturated (UIBC)
Transferrin*

Thyroid Function Tests
Thyroxine, Total (TT4)
Thyroid-Stimulating Hormone (TSH)
Thyroid Uptake (T-Uptake)

Endocrine/Hormone Tests
Cortisol

Allergy Tests
Immunoglobulin E (IgE)

Serum Proteins/Serology Tests
Alpha-1-Acid Glycoprotein (AAG)*
Alpha-1-Antitrypsin (AAT)*
Alpha-2-Macroglobulin (AMG)*
Antistreptolysin O (ASO)
Apolipoprotein A1 (APO A)*
Apolipoprotein B (APO B)*
Beta-2-Microglobulin
C3 Complement*
C4 Complement*
Ceruloplasmin (CER)*
C-Reactive Protein (CRP)
Haptoglobin*
Immunoglobulin A (IgA)*
Immunoglobulin G (IgG)*
Immunoglobulin M (IgM)
Lipoprotein A (Lp(a))*
Prealbumin
Rheumatoid Factor (RF)

* 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.

Omni•IMMUNE

Thermo Scientific MAS Omni•IMMUNE™ and Omni•IMMUNE PRO™ Controls provide consolidation for routine immunoassay, tumor marker and specialty immunoassay QC processing into a single product, offering three distinct levels. Value assignment is provided for key integrated instrument systems including Abbott Architect, Beckman Coulter Access and UniCel, Ortho Clinical Diagnostics Vitros, Roche Cobas and Elecsys systems and Siemens Centaur, Dimension, Dimension Vista and Immulite.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
OIM-101	1	6 x 5 mL Assayed	36 month shelf life @ -25 to -15 ºC 30 days open vial @ 2 to 8 ºC	Human Serum
OIM-202	2			
OIM-303	3			

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 and Size	Storage and Stability	Matrix
OPRO-101	1	6 x 5 mL Assayed	36 month shelf life @ -25 to -15 ºC 30 days open vial @ 2 to 8 ºC	Human Serum
OPRO-202	2			
OPRO-303	3			

Analytes

New Specialty Tests
25-Hydroxy Vitamin D
Anti-Thyroglobulin (Anti-Tg) **(PRO)**
Anti-Thyroid Peroxidase (Anti-TPO) **(PRO)**
C-Peptide
Estriol, Free
Fructosamine*
IGF-1 (insulin-like growth factor 1)
Phenytoin, Free
Pregnancy Associated Plasma Protein A (PAPP-A)*
Procalcitonin
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
Adrenocorticotropic 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)

* 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.

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

Thermo Scientific MAS

Serum Chemistry Controls

MAS chemTRAK®•H

This is a comprehensive multi-analyte control, designed to monitor general chemistry and TDM methods. Available in an assayed or unassayed format. Both formats are liquid, ready-to-use and no additional preparation is required. Assayed values are available for most major platforms.

Part Number	Level	Bottles and Size	Storage and Stability*	Matrix
CHA-1	1	6 x 5 mL Assayed	30 month shelf life @ -25 to -15 ºC 14 days open-vial @ 2 to 8 ºC; unassayed 7 days open-vial @ 2 to 8 ºC; assayed	Human Serum
CHA-2	2			
CHA-3	3			
CHU-1	1	10 x 15 mL Unassayed		
CHU-2	2			
CHU-3	3			

Analytes

Acetaminophen
Alanine Aminotransferase (ALT)
Albumin
Alkaline Phosphatase
Amikacin
Amylase
Amylase (Pancreatic)
Apolipoprotein A
Apolipoprotein B
Aspartate Aminotransferase (AST)
Bilirubin Unconjugated
Bilirubin, Conjugated
Bilirubin, Direct (DBIL)
Bilirubin, Neonatal
Bilirubin, Total (TBIL)
Blood Urea Nitrogen (BUN)
C3 Complement*
C4 Complement*
Caffeine
Calcium
Carbamazepine
Carbon Dioxide (CO_2)
Chloride
Cholesterol
Creatine Kinase (CK)
Creatinine
Digoxin
Disopyramide
Ethanol
Ethosuximide
Ferritin*
Gamma-Glutamyl Transferase
Gentamicin
GLDH*
Glucose
Haptoglobin*
HBDH*
HDL Cholesterol
Immunoglobulin A (IgA)*
Immunoglobulin G (IgG)*
Immunoglobulin M (IgM)*
Iron
Iron Binding Capacity, Total (TIBC)
Iron Binding Capacity, Unsaturated (UIBC)*
Lactate Dehydrogenase (LDH)
Lactic Acid
LDL Cholesterol
Lidocaine
Lipase
Lipoprotein (a)
Lithium
Magnesium
Methotrexate
N-acetylprocainamide (NAPA)
Osmolality
Phenobarbital
Phenytoin
Phosphorus
Potassium
Prealbumin
Primidone
Procainamide
Pseudocholinesterase
Quinidine
Salicylate
Sodium
Theophylline
Thyroid Stimulating Hormone
Thyroid Uptake (T-Uptake)
Thyroxine, Free (FT4)*
Thyroxine, Total (TT4)
Tobramycin
Total Protein
Transferrin*
Tricyclic Antidepressants
Triglycerides
Triiodthyronine, Free (FT3)*
Triiodthyronine, Total (TT3)*
Uric Acid
Valproic Acid
Vancomycin

* 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.

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

MAS Alcohol/Ammonia

An assayed, bi-level control for monitoring ethanol and ammonia levels in serum. This ready-to-use product is packed in convenient multipacks and has been assayed for most major instruments. Normal Ammonia values in Level 1.

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
AAC-MP	Bi-level, Multi-Pack	6 x 3.5 mL	24 month shelf life @ 2 to 8 ºC 30 days open-vial @ 2 to 8 ºC	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. There are no additional preparation steps required for this liquid, ready-to-use product. An elevated Bilirubin is included in level 3 for neonatal applications.

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
BC101	1	6 x 5 mL	24 month shelf life @ 2 to 8 ºC 14 days open-vial @ 2 to 8 ºC when stored in the dark	Bovine Serum
BC102	2			
BC103	3			

Analytes

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

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.

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

Thermo Scientific MAS

Urine Chemistry Controls

MAS UA Control

A bi-level control that is liquid and ready-to-use with improved room temperature storage capability. This urine control was designed for monitoring urine dipstick and microscopic components and is assayed for most major reagent strips and strip systems. It includes ten commonly tested dipstick tests plus Microalbumin, Creatinine and hCG.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
UAB-115	1 (normal)	6 x 15 mL	24 month shelf life @ 2 to 8 ºC Open Vial: Refrigerated 3 months @ 2 to 8 °C Room temperature 6 weeks @ 18 to 25 °C	Human Urine
UAB-160		4 x 60 mL		
UAB-215	2 (abnormal)	6 x 15 mL		
UAB-260		4 x 60 mL		
UAB-MP	Bi-level, Multi-Pack	6 x 15 mL		

Analytes

Bilirubin
Blood
Creatinine
Crystals
Glucose
Human Chorionic Gonadotropin (hCG)
Ketones
Leukocyte Esterase
Microalbumin
Nitrite
Osmolality
pH
Potassium
Protein
Protein-to-creatinine ratio
Red Blood Cells
Sodium
Specific Gravity
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 and Size	Storage and Stability	Matrix
UAT-MP	Bi-level, Multi-Pack	10 x 12 mL	24 months shelf life @ 2 to 8 ºC Open Vial: Refrigerated 8 weeks or 20 dips @ 2 to 8 ºC Room temp 2 weeks or 10 dips @ 18 to 30 ºC	Human Urine

Analytes

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

MAS Urinalysis

A bi-level urine control designed for monitoring urine dipstick and microscopic components. This liquid control is assayed for most major reagent strips and strip systems.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
024222	1 (abnormal)	4 x 15 mL	12 month shelf life @ 2 to 8 ºC	Human Urine
024225		4 x 60 mL	30 days open-vial @ 2 to 8 ºC	
024224	3 (normal)	4 x 15 mL	18 month shelf life @ 2 to 8 ºC	
024227		4 x 60 mL	30 days open-vial @ 2 to 8 ºC	

Analytes

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

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.

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

Sentry Urine Dipstick Control

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

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
URN5005	Bi-level, Multi-Pack	4 x 25 mL	18 months shelf life 2 to 8 ºC 12 months open-vial @ room temperature	Synthetic

Analytes

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

MAS UrichemTRAK

UrichemTRAK® is designed to quantitatively monitor the most commonly tested urine chemistry analytes. This liquid, assayed control is ready-to-use, requires no additional preparation and the non-azide formulation will not interfere with ISEs. It includes general chemistry, physical properties and hCG tests.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
UR11001	1	6 x 15 mL	24 month shelf life @ 2 to 8 ºC opened and unopened	Human Urine
UR22002	2			
UR-MP	Bi-level, Multi-Pack			

Analytes

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

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.

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

Thermo Scientific MAS

Immunoassay Controls

MAS Liquimmune®

Save time and extra costs associated with lot changes using the MAS Liquimmune controls now with an extended shelf life. This multi-analyte immunoassay control is liquid based and designed to monitor immunoassay test procedures on automated instruments. Provides coverage of fertility, thyroid, iron deficiency, endocrine and allergy parameters. Assayed values are provided for major instrument systems.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
LIG-101	1	6 x 5 mL	60 month shelf life @ -25 to -15 ºC 90 days unopened @ 2 to 8 ºC 30 days open-vial @ 2 to 8 ºC	Human Serum
LIG-202	2			
LIG-303	3			

Analytes

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

* 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.

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

MAS PTH Control

PTH (Parathyroid Hormone) is commonly tested to assess Calcium regulation in blood. The MAS PTH Control offers three distinct PTH levels for evaluation of automated PTH methods across the assay range. Provided in a liquid format for ease of use, the MAS PTH Control offers 10 days open vial stability when stored at 2-8 ºC. Value assignment is provided for the key automated PTH methods available in today's clinical laboratory.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
PTH-MP	Tri-level Multipack	6 x 3 mL	24 months @ -25 to 15 ºC 10 days open-vial @ 2 to 8 ºC	Human Serum

Analytes

Parathyroid Hormone (PTH)

MAS PAR TDM

This liquid therapeutic drug control is a multi-analyte control with assayed values designed for therapeutic drugs and common immunoassay test procedures on most automated instruments. No additional preparation is required for this liquid, ready-to-use product that offers three significant levels.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
PTD1-1001	1	6 x 5 mL	36 month shelf life @ 2 to 8 ºC 30 days open-vial @ 2 to 8 ºC	Bovine Serum
PTD2-2002	2			
PTD3-3003	3			

Analytes

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

MAS T-Marker

This liquid, assayed, multi-analyte control is designed to monitor performance of various cancer antigen tests on automated instruments, such as Abbott Architect®, Beckman Access/Dxl®, Ortho Vitros ECi®, Roche Modular Elecsys®, Siemens Advia Centaur® and Immulite®, and Tosoh AIA 600II®. No additional preparation steps are required for these ready-to-use products.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
TUM-101	1	6 x 3 mL	36 month shelf life @ -25 to -15 ºC 90 days unopened @ 2 to 8 ºC 30 days open-vial @ 2 to 8 ºC	Human Serum
TUM-202	2			
TUM-303	3			

Analytes

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

* 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.

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

Thermo Scientific MAS

Cardiac and Diabetes Controls

MAS CardioImmune®•XL

This multi-analyte control is designed to monitor serum cardiac marker test methods. No additional preparation is required for this liquid, ready-to-use product. It offers four distinct levels, and is also available in a tri-level multipack.

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
CAI-XLL	L	6 x 3 mL	36 month shelf life @ -25 to- 15 °C 30 days open-vial @ 2 to 8 °C (for hsCRP, Digitoxin, Troponin I and Homocysteine) 15 days open-vial @ 2 to 8 °C for BNP32, Myoglobin (when a dropper tip is used), NT-proBNP, Troponin T, CK-MB	Human Serum
CAI-XL1	1			
CAI-XL2	2			
CAI-XL3	3			
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 CardioImmune® Ultra Low

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

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
CAI-UL	UL	6 x 3 mL	36 month shelf life @ -25 to -15 ºC 30 days open-vial @ 2 to 8 ºC	Human Serum

Analytes

Troponin I

MAS Diabetes

This liquid assayed diabetes control is a bi-level control designed to monitor hemoglobin A1c methods. Assayed for most major instrument systems. The liquid, ready-to-use product requires no additional preparation.

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
DBCL-MP	Bi-level Multi-Pack	6 x 1 mL	24 month shelf life @ -25 to -15 ºC 60 days unopened @ 2 to 8 °C 30 days open-vial @ 2 to 8 ºC	Human Whole Blood

Analytes

Hemoglobin A1c (HbA1c)

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.

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

Immunology and Protein Controls

MAS Immunology

This multi-analyte immunology liquid assayed control is designed to monitor the performance of various serum protein and serology test procedures including Antistreptolysin O, C-Reactive Protein, Prealbumin and Rheumatoid Factor. It is assayed for major instrument systems and is ready-to-use, requiring no additional preparation. Three levels provide monitoring of the full assay range.

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
IC-101	1	6 x 3 mL	24 month shelf life @ 2 to 8 ºC 30 days open-vial @ 2 to 8 ºC	Human Serum
IC-202	2			
IC-303	3			

Analytes

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

MAS CSF

This assayed, bi-level 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. Assayed for major instrument systems as well as for cellulose acetate and agarose gel electrophoresis. These products are liquid, ready-to-use and require no additional preparation.

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
CSF-MP	Bi-level, Multi-Pack	6 x 3.5 mL	24 month shelf life @ 2 to 8 ºC 30 days open-vial @ 2 to 8 ºC	Human Serum

Analytes

Albumin
Alpha-1-Globulin
Alpha-2-Globulin
Beta-Globulin
Chloride
Gamma-Globulin
Glucose
Glutamine
Immunoglobulin A (IgA)*
Immunoglobulin G (IgG)*
Immunoglobulin M (IgM)*
Lactate Dehydrogenase (LDH)
Lactic Acid
Oligoclonal Bands
Potassium
Prealbumin
Sodium
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.

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

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). The control is a liquid, ready-to-use product available for use on a variety of instrument platforms. Each level of control is individually packed which gives you the flexibility to choose your levels according to your drug screen panel cutoffs while keeping the number of control vials to a minimum.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
DOAT-1	1	6 x 18 mL	24 month shelf life @ 2 to 8 ºC 30 days open vial @ 2 to 8 ºC	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
Benzoylecgonine
Buprenorphine
Cotinine
d-Methamphetamine
EDDP
Ethanol
Ethyl Glucuronide
LSD
Methadone
Methaqualone
Morphine, free
Nitrazepam
Nortriptyline
Oxazepam
Oxycodone
Phencyclidine
Propoxyphene
Secobarbital

MAS TOX Control

This multi-analyte control is developed for use with the Thermo Scientific MAS Toxicology immunoassays for the semi-quantitative measurement of barbiturates, benzodiazepine, and tricyclic antidepressants in either serum or plasma.

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
10011608	Multi-Pack 3 levels	6 x 5 mL	24 months shelf life @ 2 to 8 ºC 20 days open vial @ 2 to 8 ºC	Bovine Plasma

Analytes

Barbiturate (Secobarbital)
Benzodiazepine (Diazepam)
Tricyclic Antidepressants (Nortriptyline)

(for use with DRI Serum Tox Reagents)

* 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.

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

Quality Control Solutions for Vista

Designed for use with the Siemens Dimension Vista instrumentation

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 provide assurance that long-term quality assurance is maintained when performing routine quality control on the Dimension Vista instrument.

Nine individual Thermo Scientific MAS quality control products are available in a Dimension Vista specific format covering the instrument assay portfolio. Six vials are provided in each kit for convenience.

MAS Alcohol/Ammonia

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
10014443	Bi-level, Multi-Pack	6 x 2 mL	24 month shelf life @ 2 to 8 ºC 7 days onboard instrument	Human Serum

Analytes

Ammonia
Ethanol

MAS CardioImmune®•XL

Part Number	Level	Bottles & Size	Storage and Stability	Matrix
10014179	L	6 x 2 mL	36 month shelf life @ -25 to -15 ºC 7 days onboard instrument	Human Serum
10014180	1			
10014181	2			
10014182	3			

Analytes

C-Reactive Protein high sensitivity (hsCRP)
CK-MB
Digitoxin
Homocysteine
Myoglobin
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.

Thermo Scientific MAS

Quality Control Solutions for Vista

MAS chemTRAK®•H

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
10014150	1	6 x 2 mL Assayed	30 month shelf life @ -25 to -15 ºC 7 days onboard instrument	Human Serum
10014151	2			
10014152	3			

Analytes

Acetaminophen
Alanine Aminotransferase (ALT)
Albumin
Alkaline Phosphatase
Amylase
Apolipoprotein A
Apolipoprotein B
Aspartate Aminotransferase (AST)
Bilirubin Direct (DBIL)
Bilirubin Total (TBIL)
Blood Urea Nitrogen (BUN)
C3 Complement*
C4 Complement*
Calcium
Carbamazepine
Carbon Dioxide (CO2)
Chloride
Cholesterol
Creatine Kinase (CK)
Creatinine
Digoxin
Ethanol
Ferritin*
Gamma-Glutamyl Transferase (GGT)
Gentamicin
Glucose
Haptoglobin
HDL Cholesterol
Immunoglobulin A (IgA)*
Immunoglobulin G (IgG)*
Immunoglobulin M (IgM)*
Iron
Iron Binding Capacity, Total (TIBC)
Lactate Dehydrogenase (LDH)
Lactic Acid
LDL Cholesterol
Lidocaine
Lipase
Lithium
Magnesium
N-acetylprocainamide (NAPA)
Phenobarbital
Phenytoin
Phosphorus
Potassium
Prealbumin
Procainamide
Pseudocholinesterase
Salicylate
Sodium
Theophylline
Thyroid Stimulating Hormone (TSH)
Thyroid Uptake (T-Uptake)
Thyroxine, Free (FT4)*
Thyroxine, Total (TT4)
Tobramycin
Total Protein
Transferrin*
Tricyclic Antidepressants
Triglycerides
Triiodthyronine, Free (FT3)*
Triiodthyronine, Total (TT3)*
Uric Acid
Valproic Acid
Vancomycin

MAS CSF

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
10014444	Bi-level, Multi-Pack	6 x 2 mL	24 month shelf life @ 2 to 8 ºC 7 days onboard instrument	Human Serum

Analytes

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

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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

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
DBCL-V	Bi-level Multi-Pack	6 x 2 mL	24 month shelf life @ -25 to -15 ºC 7 days onboard instrument	Human Whole Blood

Analytes

Hemoglobin A1c (HbA1c)

MAS Immunology

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
IC-V1	1	6 x 2 mL	24 month shelf life @ 2 to 8 ºC 7 days onboard instrument	Human Serum
IC-V2	2			
IC-V3	3			

Analytes

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

MAS Liquimmune®

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
10013876	1	6 x 2 mL	60 month shelf life @ -25 to -15 ºC 7 days onboard instrument	Human Serum
10013877	2			
10013878	3			

Analytes

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

MAS UrichemTRAK®

Part Number	Level	Bottles and Size	Storage and Stability	Matrix
10014127	Bi-level, Multi-Pack	6 x 2 mL	24 month shelf life @ 2 to 8 ºC 7 days onboard instrument	Human Urine

Analytes

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

* 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 LabLink xL 2.0

Quality Assurance Software

Monitor your internal quality control while comparing results with other labs around the globe in real-time with Thermo Scientific™ LabLink xL™ cloud-based quality assurance software.

Truly Real-Time Peer Comparison

- Peer data is updated instantly so you can identify trends and shifts sooner
- Compare with labs around the globe or just your affiliated network

Daily QC Integration for MAS and Other QC Products

- All your QC products are in one place
- Interactive Levey-Jennings charts
- Westgard rules
- Flag and comment on individual data points
- Audit-friendly reports with electronic signature verification

Simple and Intuitive Interface

- Interactive graphs, comments, and easy-to-use interface - all from your internet browser

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
- View data from a specific lab, or all labs combined
- Permissions hierarchy enables user access for lab managers, technicians, and administrators

Validated Software

- FDA and GAMP 5 compliant

Multilingual Capabilities

- Available in 15+ languages

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

- Affliliated 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 ✓

*In LabLink xL 2.0

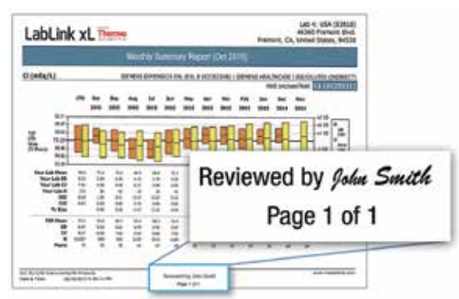
Region Specific ✓

- Rilibak Data Summary
- Rilibak ✓

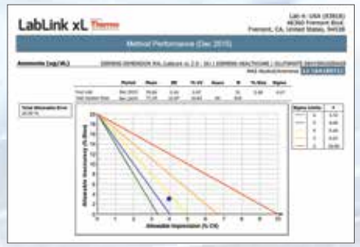
✓ **NEW IN LABLINK XL 2.0**

Signature Verification and Email Delivery

- **Review and digitally sign reports (authorized users only)**
- **Automatic delivery of reports via email every month**

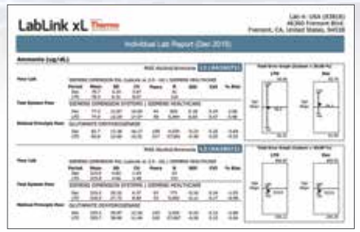


Popular reports



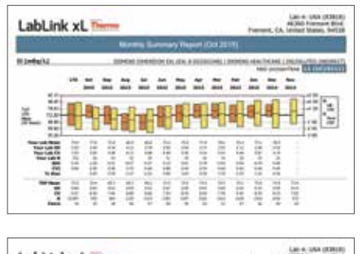
Method Performance and Sigma Score

- See which instruments are performing the best for a particular method and test
- Choose between CLIA quality goals or custom goals for total allowable error



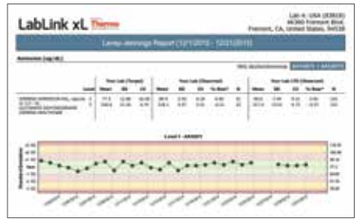
Individual Lab Report

- Test-by-test listing of your lab's statistics and your peer group's statistics for a given month
- Total Error Graph compares your lab's method to your peer group's mean and your chosen total allowable error limits



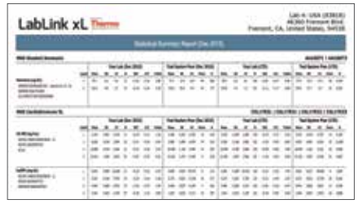
Monthly Summary Report

- Shows a histogram of your lab's data alongside your peer group's data
- Quickly identify shifts and trends with a month-by-month snapshot of your lab's performance



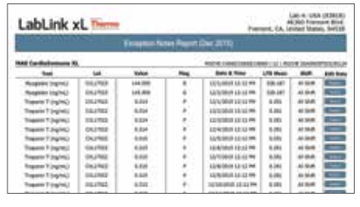
Levey-Jennings Report

- Displays individual daily QC results or the daily mean for a selected date range on a Levey-Jennings chart
- View Levey-Jennings charts for a single level or multiple levels at the same time for quick comparison



Statistical Summary Report

- Displays a statistical analysis for each of your lab's tests alongside your peer group's results for a given month
- View performance metrics such as Mean, SD, CV, SDI, CVI and % Bias all on one screen



Exception Notes Report

- Summarizes which QC results and corresponding analytical methods fell outside the performance criteria in a given month
- Designated values are flagged as outliers with respect to the lab's mean, peer group mean, total allowable error, or other limits for each test

Frequently Asked Questions

Q: Is LabLink xL secure?

A: Absolutely. LabLink xL uses SSL encryption to ensure your data is protected.

Q: Can I create unique login credentials for each user?

A: Yes. Each user can have a unique login ID and password, and the lab administrator can set different levels of permission for each user. For example, an administrative user can sign reports while a lab technician can only view and enter data.

Q: I have non-MAS products. Do I need to use other software?

A: Non-MAS products are supported by auto-connectivity and Daily QC features such as report generation, Levey-Jennings charts, Westgard rules, multiple lab management, and affiliated lab review. Peer data for non-MAS products is not available at this time.

Q: Does LabLink xL offer both manual and automated data entry options?

A: Yes. LabLink xL offers options for automated data entry as well as manual data entry (individual points or summary data).

Q: Does LabLink xL have access to my patient data?

A: No. Even with our automated connectivity options, patient data never leaves your lab, and is never seen by LabLink xL.

Interested in learning more?

Our specialists can provide a software demonstration, go over auto-connectivity options, and more.

Visit maslablink.com or email us at lablink.qap@thermofisher.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 free 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 4-6 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.
- Free of charge MAS QC product: This is based upon the number of tests and MAS products being value assigned. Free 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 e-mail to MGC-VA@thermofisher.com.

Step 3: A value assignment introduction pack will be sent via mail or e-mail. 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: _____

E-mail: _____ Accreditation #: _____

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

E-mail to: **MGC-VA@thermofisher.com**

Please help us understand what tests you perform in your clinical laboratory by highlighting tests from the menu below:

Albumin	Bilirubin	Estradiol	Potassium	TSH
Alcohol	Calcium	Estriol	Procalcitonin	T3
Aldosterone	Carbon Dioxide	FSH	Progesterone	T3 (Free)
Alpha Hydroxy Vit D	Chloride	Glucose	Prolactin	T4
Ammonia	Cholesterol	HCG	SGOT	T4 (Free)
Amylase	Cholesterol, HDL	HGH	SGPT	Uric Acid
Angiotensin	Cholesterol, LDL	Homocysteine	Sodium	
Apo A	DHEA	Lithium	Testosterone	
Apo B	DHEA SO4	Microalbumin	Triglyceride	

References

Analyte	Page	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
		53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
17-OH-Progesterone										◆			◆	◆																	
25-OH-Vitamin D													◆	◆																	
Acetaminophen				◆						◆		◆	◆	◆												◆				◆	
Acid Phosphatase				■																											
Adrenocorticotropic 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)				◆								◆																			
Antistreptolysin O (ASO)								◆				◆																	◆		
Anti-Thyroglobulin (anti-Tg)														◆																	
Anti-Thryroid Peroxidase (anti-TPO)														◆																	
Antithrombin III								◆																							
Apolipoprotein A1				◆				■				◆														◆			■		
Apolipoprotein B				◆				■				◆														◆			■		
Appearance																				◆	◆	◆									
Aspartate Amonitransferase (AST)				◆								◆														◆					
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													◆	◆					◆												

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

Analyte	Page	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
		53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
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			◆							◆	◆														◆					◆	
Carbon Dioxide (CO2)					◆							◆														◆					
Cocaine (Benzoylecgonine)								◆																							
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)													◆	◆																	

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

References

Analyte	Page	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
		53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
Ethanol		◆			◆			◆				◆												◆		◆					
Ethanol Ethyl Glucuronide (EtG)								◆																							
Ferritin					■				■	◆		◆	◆	◆					◆							■			■	◆	
Folate (Vitamin B9)										◆			◆	◆																◆	
Fructosamine													■	■																	
FSH (folicle stimulating hormone)										◆			◆	◆																◆	
Gastrin													◆	◆					◆												
Gentamicin					◆					◆		◆	◆	◆	◆											◆				◆	
Gamma-Glutamyl Transferase (GGT)					◆							◆														◆					
Globulins						◆																					■				
Glucose					◆	◆						◆					◆			◆	◆	◆	◆			◆	◆				◆
Haptoglobin					◆				◆			◆														◆			◆		
Human Chorionic Gonadotropin (hCG)										◆	◆		◆	◆			◆		◆	◆	◆	◆	◆								
HDL Cholesterol					◆							◆														◆					
Hemoglobin (Urine Test)																	◆			◆	◆	◆								
Hemoglobin A1c (HbA1c)							◆																					◆			
Homocysteine				◆						◆			◆	◆											◆					◆	
hsC-Reactive Protein (hsCRP)				◆							◆														◆						
Human Growth Hormone										◆			◆	◆																	
Imipramine					◆							◆																			
Immunoglobulin A (IgA)					■	■				◆	■		◆													■	◆		◆	◆	
Immunoglobulin E (IgE)										◆	■		◆	◆	◆														◆	◆	
Immunoglobulin G (IgG)					■	■				◆	■		◆													■	◆		◆	◆	
Immunoglobulin M (IgM)					■	■				◆	■		◆													■	◆		◆	◆	
Inhibin A																															
Insulin										◆			■	■					◆												
IGF-1 (insulin-like growth factor 1)													◆	◆																	
Iron					◆							◆														◆					
Iron Binding Capacity (IBC)					◆							◆														◆					
Kappa Light Chain									◆																				◆		
Ketones																	◆			◆	◆	◆									
Lactic Acid					◆	◆						◆														◆	◆				
Lambda Light Chain									◆																				◆		
Lactate Dehydrogenase (LDH)					◆	◆						◆														◆	◆				
LDL Cholesterol					◆							◆														◆					
Leukocyte Esterase																	◆			◆	◆	◆									
Lidocaine					◆					◆		◆	◆	◆	◆											◆				◆	
Lipase					◆							◆														◆					
Lipoprotein (a)					◆							◆																			
Lithium					◆					◆		◆	◆	◆	◆											◆				◆	
LSD								◆																							
Luteinizing Hormone (LH)										◆			◆	◆																◆	
Magnesium					◆							◆											◆			◆					◆
Methadone								◆																							
Methaqualone								◆																							
Methotrexate					◆							◆			◆											◆					

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

Analyte	Page	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
		53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
Microalbumin																	◆			◆	◆	◆	◆								◆
Morphine, Free								◆																							
Myoglobin				◆							◆														◆						
Myueloperoxidase (MPO)											◆																				
N-acetylprocainamide (NAPA)					◆					◆		◆	◆	◆	◆											◆				◆	
N-Terminal Brain Natriuretic Peptide (NT-proBNP)											◆																				
Nitrite																	◆			◆	◆	◆									
Nordiazepam										◆			◆	◆																	
Nortriptyline					◆			◆				◆						◆													
NSE																			■												
Oligoclonal Bands						◆																									
Opiates (Morphine, Free)								◆																							
Osmolality					◆							◆								◆	◆	◆	◆								
Oxazepam								◆																							
Oxycodone								◆																							
Prostatic Acid Phosphatase (PAP)													◆	◆					◆												
Parathyroid Hormone (PTH)													◆	◆		◆															
pH																	◆			◆	◆	◆	◆								
Phencyclidine (PCP)								◆																							
Phenobarbital					◆					◆		◆	◆	◆	◆											◆				◆	
Phenytoin					◆					◆		◆	◆	◆	◆											◆				◆	
Phenytoin (Free)													◆	◆																	
Phosphorus					◆							◆										◆				◆					◆
Potassium					◆	◆						◆								◆	◆	◆	◆			◆	◆				◆
Prealbumin					◆	◆			◆			◆														◆	◆		◆		
Pregency Associated Plasma Protein (PAPP-A)													■	■																	
Primidone					◆					◆		◆	◆	◆	◆																
NT-proBNP				◆																					◆						
Procalcitonin (PCT)											◆		◆	◆																	
Procainamide					◆					◆		◆	◆	◆	◆											◆				◆	
Progesterone										◆			◆	◆																	
Prolactin										◆			◆	◆					◆												
Properdin Factor B									◆																					◆	
Propoxyphene								◆																							
Protein Electrophoresis						◆																									
Prostate Specific Antigen, Total (TPSA)										◆			◆	◆					◆											◆	

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

References

Analyte	Page	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
	Page	53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
Prostate Specific Antigen, Free (FPSA)										♦			♦	♦					♦											♦	
Pseudocholinesterase (PCHE)					♦							♦														♦					
Quinidine					♦					♦		♦	♦	♦	♦																
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.

Instrument	Page	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
	Page	53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
ABBOTT																															
Architect		♦	♦	♦	♦	♦	♦		♦	♦		♦	♦	♦	♦	♦		♦	♦				♦								
ACON INTERNATIONAL																															
ACON Mission (Visual)																				♦	♦	♦									
Mission U120																				♦	♦	♦									
Mission U500																				♦	♦	♦									
BECKMAN-COULTER																															
Access				♦					♦	♦			♦	♦	♦	♦			♦				♦								
AU Series		♦	♦	♦	♦	♦	♦		♦	♦		♦			♦	■		♦					♦								
ICON																						♦	♦								
ICON/11/25/20																				♦	♦										
Immage				♦					♦											♦	♦	♦									
Synchron CX/LX		♦	♦	♦	♦	♦	♦		♦	♦		♦			♦			♦				♦								
UniCel Dxl				♦						♦			♦	♦		♦			♦				♦								
UniCel DxC Synchron		♦	♦	♦	♦	♦	♦		♦	♦		♦			♦			♦					♦								
BIOLIS																															
24i Clinical Systems					♦																										
BIOMERIEUX																															
Vidas Systems					♦					♦	♦		♦	♦																	
BIOVATION																															
Biovation																				♦	♦	♦									
BIORAD																															
DiaSTAT							♦																								
D-10							♦																								
Variant/Variant II							♦																								
COLE TAYLOR MARKETING, INC. (VISUAL)																															
Cole Taylor (on CT-120)																				♦	♦										
Cole Taylor (on Clinitek)																						♦									
DFI DIAGNOSTICS																															
DFI ComboStik (Visual)																				♦	♦										
DFI ComboStik Series																				♦	♦										
DFI ComboStik CYBOW (Visual)																				♦	♦										
DFI ComboStick CYBOW Series																				♦	♦										
DFI 10 +/ DUS (Visual)																				♦	♦										
DFI DU Reader 300																				♦	♦										
DFI DUS R-300																				♦	♦										
ERBA DIAGNOSTICS																															
ERBA Urodip (Visual)																				♦	♦										
ERBA Urodipcheck 300																				♦	♦										

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

References

Instrument	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
Page	53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
FISHERBRAND																														
Sure-Vue																			◆	◆	◆	◆								
UriSystem																			◆	◆	◆									
Fisher Brand (Visual)																			◆	◆	◆									
Fisher Brand (on Clinitek)																			◆	◆	◆									
GENZYME CORPORATION																														
OSOM HcG Combo																			◆	◆	◆	◆								
Signify																			■	■	◆	◆								
CONTRAST II																			■	■		◆								
HYPOGUARD																														
DiaScreen 10 (visual)																			◆	◆		◆								
DiaScreen 50																			◆	◆		◆								
IRIS DIAGNOSTICS																														
Aution MAX AX-4280																			◆	◆	◆									
Aution MAX IQ200 Combo																			◆	◆	◆									
Aution MAX AX-4280/JET																			◆	◆										
Aution Max AX-4030																			◆	◆	◆									
Aution Eleven																			◆	◆										
iChem 100																			◆	◆	◆	■								
iQ200																			◆	◆	◆	■								
MACHEREY-NAGEL																														
URYXXON 300																			◆	◆										
URYXXON Relax																			◆	◆										
ORTHO CLINICAL DIAGNOSTICS																														
Vitros	◆	◆		◆	◆			◆	◆		◆			◆	◆							◆								
Vitros ECi/3600			◆						◆			◆	◆	◆	◆			◆				◆								
Vitros 5,1 FS	◆	◆		◆	◆	◆		◆	◆		◆			◆	◆							◆								
Vitros 4600/5600	◆	◆	◆	◆	◆	◆		◆	◆		◆	◆	◆	◆	◆			◆				◆								
QUIDEL CORPORATION																														
QuickVue (visual)																			◆	◆	◆									
UrinQuick																			◆	◆										
ROCHE																														
Cobas 6000	◆	◆	◆	◆	◆	◆		◆	◆		◆	◆	◆	◆	◆			◆				◆								
Chemstrip 101																			◆	◆	◆									
Cobas Integra	◆	◆	◆	◆	◆	◆		◆	◆		◆			◆								◆								
Criterion 1/11																			◆	◆	◆									
CUA/SUA																			◆	◆	◆									
Elecsys			◆						◆			◆	◆	◆	◆			◆												
Hitachi/Modular Analytics E170	◆	◆	◆	◆	◆	◆		◆	◆		◆	◆	◆	◆	◆		◆	◆	◆	◆		◆								
Micral																			◆	◆	◆									
Mini UA																			◆	◆	◆									
Reagent Strip (visual)																			◆	◆	◆									
Urisys 1800/2400/1100																			◆	◆										

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

Instrument	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
Page	53	53	58	52	59	58	60	59	56	49	50	51	51	57	57	55	60	57	54	54	54	55	61	61	62	62	63	63	63	63
SIEMENS HEALTHCARE																														
Acetest																			◆	◆	◆									
Advia 1650/2400	◆	◆		◆	◆	◆		◆	■		◆			◆	■		◆					◆								
Advia Centaur			◆					◆	◆			◆	◆		◆							◆								
Altas																			◆	◆	◆									
BNA																					◆									
BN II/Prospec			◆	◆		◆		◆						■							■	◆								
Clinitek Series																			◆	◆	◆									
Clinitest																			◆	◆	◆									
DCA 2000/Vantage						◆																■								
Dimension Series	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆			◆				◆	◆	◆	◆	◆								
Dimension VISTA	◆	◆	◆	◆	◆	◆		◆	◆		◆	◆	◆	◆								◆	◆	◆	◆	◆	◆	◆	◆	◆
Ictotest																			◆	◆	◆									
Immulite/Immulite 2000			◆			◆		◆	◆			◆	◆	◆	◆			◆												
Micro-Bumintest																			◆	◆	◆									
Reagent Strip (visual)																			◆	◆	◆									
Status																			◆	◆	◆									
Stratus CS			◆							◆																				
Viva Systems									◆					◆																
THERMO FISHER SCIENTIFIC																														
Konelab Systems			◆	◆	◆									◆																
B·R·A·H·M·S Kryptor										◆		◆	◆					◆												
MGC240																	◆													
TOSOH BIOSCIENCES																														
AIA Series			◆			◆			◆			◆	◆	◆	◆			◆												
A1c 2.2 Plus						◆																								
G7/G8						◆																								
YD DIAGNOSTICS																														
Uriscan (Visual)																			◆	◆	◆									
Uriscan Pro II																			◆	◆	◆									
Uriscan Optima II																			◆	◆	◆									
Uriscan Mini																					◆									
Uriscan Super																			◆	◆										

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

References

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Instrument	Alcohol/Ammonia	Bilirubin	CardioImmune•XL	chemTRAK•H	CSF	Diabetes	DOA TOTAL	Immunology	Liquimmune	Omni•CARDIO	Omni•CORE	Omni•Immune	Omni•Immune PRO	PAR TDM	PTH Control	Sentry Urine Dipstick Control	TOX Control	T-Marker	UA Control	UA Dip Tube	Urinalysis	UrichemTRAK	Vista Alcohol/Ammonia	Vista CardioImmune•XL	Vista chemTRAK•H	Vista CSF	Vista Diabetes	Vista Immunology	Vista Liquimmune	Vista UrichemTRAK
OTHER																														
Arteray Monarini						◆																								
Bilirubinometer		◆		◆																										
Coverslip																			◆	◆	◆									
Diastix (Bayer)																			◆	◆	◆									
Emit				◆					◆					◆																
Flame Photometer				◆	◆				■					◆					◆	◆		◆								
A1CNow						◆																								
Osmometer				◆							◆											◆								
pH Meter																			◆	◆										
Refractometer																			◆	◆	◆									
Thermo Electron Pocketchem																			◆	◆	◆									

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

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DiaSTAT®, D-10® and Variant/Variant® II: Bio-Rad Laboratories, Hercules, CA

Biovation®: Biovation Inc., Hercules, CA

SPAplus®; The Binding Site Group Ltd, Birmingham, UK

Fisherbrand®, UriSystem® and Sure-Vue®: Fisher Scientific, Pittsburgh, PA

CONTRAST II®, OSOM® and Signify®: Genzyme Corp. Cambridge, MA

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iChem100® and IQ200®: International Remote Imaging Systems Inc., Chatsworth, CA

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