

***R*Xseries**

Drugs of Abuse Testing and Therapeutic Drug Monitoring from Randox



RANDOX
clinical diagnostic solutions

Drugs of Abuse Assays and Therapeutic Drug Monitoring from Randox

The necessity for drug detection and monitoring is commonplace, as abuse of prescription and non-prescription drugs takes its grip globally. Similarly monitoring of therapeutic drug treatment requires regular assessment to ensure compliance, efficacy and to prevent drug induced toxicity.

Randox drugs of abuse (DoA) and therapeutic drug monitoring (TDM) assays together with the RX series analysers, quality control and EQA schemes, provide a comprehensive package for toxicology testing.

Benefits of RX series for DoA and TDM testing

- Conveniently sized benchtop analysers offer consolidation of common DoA and TDM tests
- Compatibility with SciTeck[®] adulteration applications avoids tampered samples evading detection
- Excellent performance against other clinical toxicology applications
- Enzyme Immunoassay detection method for DoA ensures accuracy and specificity of the highest standard
- Latex enhanced immunoturbidimetry TDM reagents offer excellent performance on a variety of platforms
- RIQAS (EQA) Urine Toxicology Programme
- Urine Toxicology and TDM Internal Quality Control
- Applications can be provided for use on other analysers

Drugs of Abuse

Reagents	Catalogue No.	Calibrator Cut Off (ng/ml)	No of Tests on RX daytona	No of Tests on RX imola
Amphetamines	DA4007	1000	190	234
Barbiturates	DA4008	200	190	234
Benzodiazepines	DA4009	200	190	234
Cocaine Metabolite	DA4011	300	190	234
Cannabinoids (THC)	DA4010	50	190	234
Ecstasy	DA4014	500	190	234
Methadone	DA4016	300	190	234
EDDP	DA4013	300	190	234
Ethanol	DA4015		190	218
Opiates	DA4012	2000	190	234

Therapeutic Drug Monitoring

Reagents	Catalogue No.	No of Tests on RX daytona	No of Tests on RX imola
Phenobarbital	TD3408	100	100
Phenytoin	TD3409	100	100
Digoxin	TD3410	100	106
Theophylline	TD3412	100	100
Gentamicin	TD3413	104	106
Valproic Acid	TD3414	100	100
Carbamazepine	TD3416	100	100
Lithium	LM4005	100	138

In addition to the comprehensive list of TDM and DoA assays, Randox can also provide applications for SciTeck[®] adulteration tests, for the assessment of:

- pH
- Specific gravity
- Aldehyde
- Nitrite
- Chromate

RX series Analysers

Whether the RX series systems are used as dedicated analysers for urine DoA screening or as routine systems in laboratories where demands for drug screening are increasing, Randox has the solution

iximola™

- Compact and fully automated random access bench top analyser
- 400 photometric tests, 240 ISE tests per hour
- Easy-to-use modern Windows based software
- Unrivalled user-defined QC capacity
- Labour saving
- Low water usage
- Unique multi-speed stirring
- Lowest service requirements in its class
- Reusable Pyrex® cuvettes
- Multi-level password access



ixdaytona™

- Compact and fully automated random access benchtop analyser
- 180 photometric tests, 270 ISE tests per hour
- Easy-to-use modern windows based software
- Unrivalled user-defined QC capacity
- Labour saving
- Low water usage
- Unique multi-speed stirring
- Lowest service requirements in its class
- Reusable Pyrex® cuvettes



Randox International Quality Assessment Scheme (RIQAS)

RIQAS is the largest international External Quality Assurance (EQA) scheme in the world. It is used by approximately 10,000 laboratories worldwide, participating in up to fifteen programmes. RIQAS provides Certificates of Participation as proof of EQA participation for laboratory accreditation.

RIQAS offers programmes, allowing toxicology laboratories to ensure consistent and accurate performance in drugs of abuse testing and therapeutic drug monitoring.

RIQAS Programmes for Toxicology

RQ9111 – Therapeutic drugs		RQ9139 - Urine Toxicology	
Amikacin	Paracetamol	d-amphetamine	Ethanol
Caffeine	Phenobarbitone	d-Methamphetamine	LSD
Carbamazepine	Phenytoin	Phenobarbital	EDDP
Cyclosporine	Primidone	Secobarbital	Methadone
Digoxin	Salicylic acid	Creatinine	Phencyclidine
Ethosuximide	Theophylline	Lorazepam	Norpropoxyphene
Gentamicin	Tobramycin	Oxazepam	Nortriptyline
Lithium	Valproic acid	Cannabinoids (THC)	Buprenorphine
Methotrexate	Vancomycin	Benzoylcegonine	Free Morphine

Internal Quality Control

Randox produce high quality tri-level internal quality control sera for DoA and TDM.

Features of Randox controls

- High quality internal control material from a manufacturer with over 27 years experience
- Excellent stability
- Wide range of analytes offered across the product range
- Different levels of each control offered to ensure accuracy and precision across the full clinical range
- Assigned values provided – either instrument or method specific
- Excellent ongoing technical support

Drugs of Abuse Controls and Calibrators

Drugs of Abuse Controls

Product description	Size	Cat. No.
Drugs of Abuse Control Level 1	10x10ml	DC1363
Drugs of Abuse Control Level 2	10x10ml	DC1364
Drugs of Abuse Control Level 3	10x10ml	DC1365

Drugs of Abuse Calibrator and Control Sets

Product description	Size	Cat. No.
Multi-drug Calibrator/ Control Set	5x10ml (Level 1 - 5)	DA2704
EDDP Calibrator/ Control Set	5x10ml (Level 1 - 5)	DA2702
Cannabinoid Calibrator/ Control Set	5x10ml (Level 1 - 5)	DA2700
Ecstasy Calibrator/ Control Set	5x10ml (Level 1 - 5)	DA2701
Ethanol Calibrator/ Control Set	4x10ml (Level 1 & 2 Cal / Low and High Controls)	DA2703

Therapeutic Drug Controls and Calibrators

Product description	Size	Cat. No.
Drug Control Level 1	20 x 5 ml	HD1667
Drug Control Level 2	20 x 5 ml	HD1668
Drug Control Level 3	20 x 5 ml	HD1669

Therapeutic Drug Calibrator

Product description	Size	Cat. No.
Multi-Analyte Therapeutic Drugs Calibrator Series	6 x 3 ml	TD3417

Randox also provide DoA testing on the innovative biochip array technology (BAT). BAT offers simultaneous multi-analyte testing on matrix specific tests including whole blood, urine, and oral fluid*

*available on DoA Array 1 only

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