DRUGS OF ABUSE TESTING & THERAPEUTIC DRUG MONITORING

THE HIGHEST QUALITY RANGE OF ROUTINE AND NOVEL REAGENTS
DRUGS OF ABUSE TESTING & THERAPEUTIC DRUG MONITORING

Barbiturates | Benzodiazepines | Cannabinoids | Cocaine Metabolite
Ecstasy | EDDP | Ethanol | Methadone | Methamphetamines | Opiates
Acetaminophen | Carbamazepine | Digoxin | Gentamicin | Lithium
Phenobarbital | Phenytoin | Salicylate (Aspirin) | Valproic Acid
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### A-Z PORTFOLIO OF REAGENTS

### A GLOBAL DIAGNOSTIC SOLUTIONS PROVIDER

### CONTACT US
DRUGS OF ABUSE TESTING

Randox provides a comprehensive range of ten drugs of abuse testing assays which offer a range of benefits including:

- **Renowned methodology** - all the Randox drugs of abuse tests are homogenous enzyme immunoassays, with the exception of ethanol which is an enzymatic assay
- **Excellent correlation** - with Gas Chromatography/ Mass Spectrometry (GC/MS) methodology
- **Liquid ready-to-use reagents** - for convenience and ease-of-use
- **Choice of results format** - qualitative or quantitative results are possible
- **Extensive measuring ranges** - enabling the presence or absence of a drug to be detected
- **Liquid calibrators and controls** - with multi-analyte products available for selected tests
- **Applications available** - with instrument specific settings for a wide range of analysers

The abuse of alcohol and drugs is a growing problem for today’s society which has wide reaching effects on the user, their family, the workplace and for a country’s health system. In order to help deal with this problem high quality, accurate drug screening tests are essential.
# Randox Drugs of Abuse Reagents Range

## BARBITURATES

**Cat. No:** DA4008  
**R1** 2x16.9ml  
**R2** 2x8ml  

Barbiturates are central nervous system depressants which are used therapeutically as sedatives and anticonvulsants. There are a number of risks associated with the recreational consumption of barbiturates including lowered blood pressure, fatigue, impaired judgement and respiratory depression.

### Key Features
- Homogenous enzyme immunoassay
- 93.3% correlation with GC/MS values
- Liquid ready-to-use format
- Included in Randox multi-analyte drugs of abuse control and calibrator products
- Stable to expiry date at +2 to +8°C
- Multiple analyser applications available

## BENZODIAZEPINES

**Cat. No:** DA4009  
**R1** 2x16.9ml  
**R2** 2x8ml  

Benzodiazepines have a range of physio-chemical and pharmacological properties. When benzodiazepines are used recreationally the effects can be sedating and intoxicating, however the consumption of these drugs can lead to a number of problems such as physical and psychological dependence, depression, anxiety and insomnia.

### Key Features
- Homogenous enzyme immunoassay
- 93.7% correlation with GC/MS values
- Liquid ready-to-use format
- Dedicated benzodiazepines controls and calibrator available
- On board stability of 28 days at approximately +10°C
- Multiple analyser applications available

## CANNABINOIDS

**Cat. No:** DA4010  
**R1** 2x16.9ml  
**R2** 2x8ml  

Cannabinoids are the compounds that produce the effects associated with marijuana consumption. Marijuana abuse produces mixed calming and stimulating effects but the consequences associated with the use of this drug can include memory and concentration problems and increased heart rate. The chronic use of marijuana may cause psychological damage.

### Key Features
- Homogenous enzyme immunoassay
- 93.3% correlation with GC/MS values
- Liquid ready-to-use format
- Dedicated cannabinoids controls and calibrator available
- On board stability of 28 days at approximately +10°C
- Multiple analyser applications available

## COCAINE METABOLITE

**Cat. No:** DA4011  
**R1** 2x16.9ml  
**R2** 2x8ml  

Cocaine is a central nervous system stimulant whose consumption can have effects such as euphoria, alertness and hyperactivity. However, cocaine abuse can also produce numerous undesirable side effects including cardiac toxicity and behavioural responses such as paranoia, hallucinations and severe psychosis.

### Key Features
- Homogenous enzyme immunoassay
- 99.3% correlation with GC/MS values
- Liquid ready-to-use format
- Included in Randox Multidrug control and calibrator products
- On board stability of 28 days at approximately +10°C
- Multiple analyser applications available
ECSTASY
Cat. No: DA4014  R1 2x16.9ml  R2 2x8ml
Ecstasy drugs are a group of amphetamine derivatives, including MDMA, MDA and MDEA. Ecstasy drugs are popularly abused for their mood altering effects which can create feelings of euphoria. However, ecstasy can also cause the user to experience hallucinations, depression, cardiac arrhythmias and sleep disorders.

Key Features
- Homogenous enzyme immunoassay
- 93.8% correlation with GC/MS values
- Liquid ready-to-use format
- Dedicated ecstasy controls and calibrator available
- On board stability of 28 days at approximately +10°C
- Multiple analyser applications available

EDDP
Cat. No: DA4013  R1 2x16.9ml  R2 2x8ml
EDDP is a methadone metabolite. Methadone is a prescribed opioid which is used to relieve chronic pain, as well as for the detoxification and treatment of narcotic or heroin addiction. EDDP testing is commonly carried out to assess whether individuals receiving methadone therapy are complying with their treatment. Methadone abuse can have side effects such as hallucinations and changes in the user’s personality.

Key Features
- Homogenous enzyme immunoassay
- 95.0% correlation with GC/MS values
- Liquid ready-to-use format
- Dedicated EDDP controls and calibrator available
- Stable to expiry date at +2 to +8°C
- Multiple analyser applications available

ETHANOL
Cat. No: DA4015  R1 2x16.9ml  R2 2x8ml
Ethyl alcohol is found in high concentrations in alcoholic beverages. Many people consume alcohol responsibly; however abuse of alcohol can lead to a loss of alertness, stupor, coma and over the long term, could lead to addiction. Furthermore, drinking alcohol during pregnancy carries a heavy risk of permanent mental and physical defects in the child, known as foetal alcohol syndrome.

Key Features
- Enzymatic assay using NAD and alcohol dehydrogenase
- Liquid ready-to-use format
- Suitable for use with both urine and serum samples
- Dedicated ethanol calibrator and control set available
- Stable to expiry date at +2 to +8°C
- Multiple analyser applications available

METHADONE
Cat. No: DA4016  R1 2x16.9ml  R2 2x8ml
The primary medical application of methadone is in the detoxification and treatment of narcotic or heroin addiction. Illicit methadone consumption can have a number of side effects. The user may experience problems such as chronic fatigue, hallucinations, mood changes and insomnia.

Key Features
- Homogenous enzyme immunoassay
- 90.9% correlation with GC/MS values
- Liquid ready-to-use format
- Included in Randox Multidrug control and calibrator products
- Stable to expiry date at +2 to +8°C
- Multiple analyser applications available
METHAMPHETAMINES

Cat. No: DA4007  R1 2x16.9ml  R2 2x8ml

Methamphetamines act as stimulants for the central nervous system and can induce feelings of euphoria, alertness and a sense of increased energy. However, the side effects associated with the consumption of these drugs are serious and include hypertension, insomnia, paranoia and anxiety.

Key Features

- Homogenous enzyme immunoassay
- 97.5% correlation with GC/MS values
- Liquid ready-to-use format
- Included in Randox Multidrug control and calibrator products
- On board stability of 28 days at approximately +10°C
- Multiple analyser applications available

OPIATES

Cat. No: DA4012  R1 2x16.9ml  R2 2x8ml

Common opiates include morphine, codeine and heroin. Morphine and codeine are legal painkillers however they are frequently abused for their central nervous system effects. Recreational use of these drugs can have a number of negative side effects including seizures, insomnia and respiratory depression. The risks associated with heroin consumption are great. Heroin is highly addictive and when administered intravenously with non-sterile needles, there is the risk of contracting diseases such as HIV or hepatitis.

Key Features

- Homogenous enzyme immunoassay
- 91.9% correlation with GC/MS
- Liquid ready-to-use format
- Included in Randox Multidrug control and calibrator products
- On board stability of 28 days at approximately +10°C
- Multiple analyser applications available

Please Note: All product performance information presented was achieved using the Randox RX series of clinical analysers. Results may vary depending on the analyser used.
RANDOX DRUGS OF ABUSE CONTROLS AND CALIBRATORS

- Liquid ready-to-use formats - for convenience and ease-of-use
- Stable to expiry date - when capped and stored at +2 to +8°C
- Multi-analyte products available - for use with Randox amphetamines, barbiturates, cocaine metabolite, methadone and opiates assays

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Randox provides a comprehensive range of ten therapeutic drug monitoring assays which offer a range of benefits:

- **High performance methods** - the majority of Randox therapeutic drug monitoring assays utilise a latex enhanced immunoturbidimetric (LEI) method. Acetaminophen and salicylate are both enzymatic assays and the lithium test uses a colorimetric method.

- **Liquid, ready-to-use reagents** - for convenience and ease of use.

- **Extensive measuring ranges** - ensuring accurate detection of both therapeutic and toxic drug concentrations.

- **Applications available** - with instrument specific settings for a wide range of biochemistry analysers.

- **Multi-analyte controls and calibrator available** - facilitating QC consolidation.

In order for therapeutic treatment to be successful, a constant concentration of the required medication must be maintained. Many medicinal drugs have a narrow therapeutic range, meaning there is little difference between the dosage required for effective treatment and a dosage that will cause severe side effects and even toxicity. Individuals absorb, metabolise and make use of drugs at different rates meaning a standard dose cannot be prescribed for every patient. It is therefore extremely important to monitor therapeutic drug treatment to ensure therapy compliance, efficacy and to prevent drug induced toxicity.
Randox Therapeutic Drug Monitoring Reagents

**ACETAMINOPHEN**
Cat. No: ACE4023  R1 2x11ml  R2 2x6.5ml

Acetaminophen, commonly known as paracetamol, is a frequently used pain-relieving drug whose consumption is not normally associated with any adverse effects. However, long-term treatment and prolonged use of acetaminophen can cause liver and kidney damage. Overdose is also a risk factor and this can lead to hepatic failure if left untreated.

**Key Features**
- Colorimetric method
- Wide measuring range - 4.89-652mg/l. The therapeutic range of acetaminophen is 10-30mg/l
- Liquid, ready-to-use calibrator included in the kit
- On-board stability of seven days at approximately +10°C
- Limited interference from Bilirubin, Hemolysis, Intralipid® and Triglycerides

**CARBAMAZEPINE**
Cat. No: TD3416  R1 2x12ml  R2 2x5ml

Carbamazepine is an anti-epileptic drug used in the treatment of seizures which may also prove effective in the long-term treatment of manic depressive illnesses. The side effects of an incorrect carbamazepine dosage can include breathing difficulties, seizures and drowsiness.

**Key Features**
- LEI method
- Liquid ready-to-use
- Wide measuring range - 1.02-19μg/ml. The therapeutic range of carbamazepine is 4-12μg/ml
- Stable to expiry date when stored at +2 to +8°C
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides

**DIGOXIN**
Cat. No: TD3410  R1 2x8ml  R2 2x6ml

Digoxin is a cardiovascular drug used to treat heart conditions such as arrhythmias and heart failure. Digoxin toxicity can be associated with a number of health problems such as changes in heart rate and rhythm, gastrointestinal problems and fatigue.

**Key Features**
- LEI method
- Liquid ready-to-use
- Wide measuring range - 0.371-5.46ng/ml. The therapeutic range of digoxin is 0.8-2ng/ml
- Stable to expiry date when stored at +2 to +8°C
- Limited interference from Bilirubin, Intralipid® and Triglycerides

**GENTAMICIN**
Cat. No: TD3413  R1 2x15ml  R2 2x6ml

Gentamicin is an antibiotic drug used to treat a wide range of bacterial infections. Within the therapeutic range most individuals will respond well to gentamicin treatment and will not experience any side effects. However, the most common complications associated with gentamicin toxicity are ear and hearing problems as well as kidney damage.

**Key Features**
- LEI method
- Liquid ready-to-use
- Wide measuring range - 0.847-11μg/ml. The therapeutic range of gentamicin is 5-10μg/ml
- Stable to expiry date when stored at +2 to +8°C
- Limited interference from Haemoglobin, Intralipid® and Triglycerides
LITHIUM
Cat. No: LM4005 R1 2x18.3ml, R2 2x6.5ml
LM8053 R1 2x18.3ml, R2 2x6.5ml
Lithium is used in the treatment of the manic phase of affective disorders, mania and manic-depression, however there is a narrow range between the therapeutic range and a toxic dose of lithium. Early symptoms of lithium toxicity include lethargy, irregular tremors, speech problems and ataxia.

Key Features
• Colorimetric method
• Liquid ready-to-use
• Wide measuring range- 0.218-3mmol/l. The therapeutic range of lithium is 1–1.20mmol/l
• Stable to expiry date when stored at +2 to +8°C
• Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides

PHENOBARBITAL
Cat. No: TD3408 R1 2x17ml R2 2x6ml
Phenobarbital is an anti-epileptic and sedative-hypnotic drug. The side effects associated with an incorrect phenobarbital prescription can include drowsiness, depression, headaches and dizziness.

Key Features
• LEI method
• Liquid ready-to-use
• Wide measuring range- 2.55-87.7μg/ml. The therapeutic range of phenobarbital is 15-40μg/ml
• Stable to expiry date when stored at +2 to +8°C
• Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides

PHENYTOIN
Cat. No: TD3409 R1 2x17ml R2 2x6ml
Phenytoin is an anti-epileptic drug used for the control of generalised seizures, however incorrect doses can prove toxic. The effects of incorrect phenytoin treatment can include insomnia, nausea, confusion and fatigue.

Key Features
• LEI method
• Liquid ready-to-use
• Wide measuring range- 2.9-44.5μg/ml. The therapeutic range of phenytoin is 10-20μg/ml
• Stable to expiry date when stored at +2 to +8°C
• Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides

SALICYLATE (ASPIRIN)
Cat. No: SAL4024 R1 2x11ml R2 2x3.8ml
Salicylate, commonly known as aspirin, has pain-relieving and anti-inflammatory properties and is frequently used due to the lack of serious side effects at normal therapeutic doses. Over dosage of salicylate however can cause metabolic acidosis, gastrointestinal and central nervous systems disturbances and even renal failure.

Key Features
• Enzymatic method
• Liquid ready-to-use
• Wide measuring range- 24.8-1079mg/l. The therapeutic range of salicylate is 150-300mg/l
• Liquid, ready-to-use calibrator included in the kit
• On-board stability of 28 days at approximately +10°C
• Limited interference from Bilirubin, Hemolysis, Intralipid®
VALPROIC ACID
Cat. No: TD3414  R1 2x12ml  R2 2x5ml

Valproic acid is a widely used anti-epileptic drug. Within the therapeutic range most individuals will respond well to valproic acid treatment; however, the side effects associated with toxicity of this drug can include tremors, gastrointestinal problems, dizziness and vision problems.

Please Note: All product performance information presented was achieved using the Randox RX series of clinical analysers. Results may vary depending on the analyser used.

Key Features
- LEI method
- Liquid ready-to-use
- Wide measuring range: 11.3-159 μg/ml. The therapeutic range of valproic acid is 50-100 μg/ml
- Stable to expiry date when stored at +2 to +8°C
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides

THERAPEUTIC DRUG MONITORING CONTROLS AND CALIBRATOR

Controls
- Assayed target values and ranges are supplied for 18 analytes including commonly used antibiotics, anti-convulsant and anti-inflammatory drugs
- 100% human serum
- Reconstituted stability of four weeks at +2 to +8°C

Calibrator
- Accurately assigned values provided for seven therapeutic drugs
- 100% human serum
- Reconstituted stability of four weeks at +2 to +8°C

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* Please note CAL2351 is required for calibration of Randox Lithium
## A-Z PORTFOLIO OF REAGENTS

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<td>Transthyretin (Prealbumin)</td>
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<td>Triglycerides</td>
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<td>TxBCardio™</td>
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<td>Urea</td>
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<td>Uric Acid</td>
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<td>Urinary Protein</td>
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<td>Valproic Acid</td>
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<tr>
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<td>Zinc</td>
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Randox has been supplying laboratories worldwide with revolutionary diagnostic solutions for over 30 years. Our experience and expertise allow us to create a leading product portfolio of high quality diagnostic tools which offer reliable and rapid diagnosis. We believe that by providing laboratories with the right tools, we can improve health care worldwide.

RX series of Clinical Analysers

The RX series combines robust hardware and intuitive software with the world leading RX series test menu, including routine chemistries, specific proteins, lipids, therapeutic drugs, drugs of abuse, antioxidants and diabetes testing. Renowned for quality and reliability, the RX series boasts one of the most extensive dedicated clinical chemistry test menus on the market guaranteeing real cost savings through consolidation of routine and specialised tests onto a single platform. This extensive dedicated test menu of high quality reagents guarantees excellence in patient care reducing costly test re-runs or misdiagnosis and offers unrivalled precision and accuracy for results you can trust.

ACUSERA

Randox is a world leading manufacturer of multi-analyte, true third party controls. Thousands of laboratories rely on us to accurately assess test system performance and ultimately empower them with the confidence required to release patient test results. With more than 390 analytes available across the Acusera range we can uniquely reduce the number of individual controls required while simultaneously reducing costs, time and storage space. A choice of formats are available, including liquid or lyophilised, ensuring flexibility and suitability for laboratories of all sizes and budgets. Some of our principle products include Clinical Chemistry, Immunoassay, Urine, Immunology/Proteins, Cardiac Markers and Therapeutic Drugs among others. As a primary manufacturer, Randox are also able to offer the unique service of custom made controls.

RIQAS

Boasting over 45,000 participants and more than 360 parameters across 32 comprehensive & flexible EQA programmes, RIQAS is the largest international EQA scheme. Designed to cover all areas of clinical testing, each of our multi-analyte programmes benefit from a wide range of concentrations, frequent reporting, rapid feedback and informative yet user-friendly reports.

Biochip Array Technology

Biochip Array Technology (BAT) is an innovative assay technology for multi-analyte screening of biological samples in a rapid, accurate and easy to use format. BAT offers highly specific tests, coupled to highly sensitive chemiluminescent detection, providing quantitative results in easy to interpret reports. Randox BAT assays offer diagnostic, prognostic and predictive solutions across a variety of disease areas including sexually transmitted infection, cardiovascular disease (CVD), familial hypercholesterolemia (FH), colorectal cancer and respiratory infection.
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