


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>10007</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>Eurofins Forensic Services Limited</b>	
	Issue No: 071    Issue date: 16 December 2021	
	<b>Queens Road</b> <b>Teddington</b> <b>Middlesex</b> <b>TW11 0LY</b>	<b>Contact: Mr Martin Hanly</b> <b>E-Mail: MartinHanly@eurofins.co.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Queens Road Teddington Middlesex TW11 0LY	Mr Martin Hanly  Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Toxicology (Workplace) Forensic Analysis Medical/Veterinary  Teddington
<b>Address</b> E4 Culham Science Centre Abingdon Oxfordshire OX14 3ED	Mr Martin Hanly  Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis  Culham
<b>Address</b> Darwin House Faraday Street Birchwood Park Risley Cheshire WA3 6FW	Mr Martin Hanly  Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis Medical/Veterinary  Birchwood Park
<b>Address</b> Royal Armouries Armouries Drive Leeds LS10 1LT	Mr Martin Hanly  Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis  Leeds
<b>Address</b> Building 3 Swiss Lodge Drive Drayton Manor Business Park Tamworth Staffordshire B78 3GL	Mr Martin Hanly  Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis  Tamworth



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Location details	Activity	Location code
<b>Address</b> Sir Alec Jeffreys Building Peel Avenue Calder Park Wakefield WF2 7UA	Mr Martin Hanly Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis Wakefield
<b>Address</b> 109 Lambeth Road London SE1 7LP	Mr Martin Hanly Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis Lambeth
<b>Address</b> 1 Dukes Green Avenue Feltham TW14 0LR	Mr Martin Hanly Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Toxicology Toxicology (Workplace) Forensic Analysis Heathrow
<b>Address</b> 22 Gas Street Birmingham B1 2JT	Mr Martin Hanly Email: martinhanly@eurofins.co.uk Website: www.eurofins.com	Forensic Analysis Birmingham
Customers' sites or premises  The customer's sites or premises must be suitable for the sampling undertaken and will be subject of contract review arrangements between the provider and the customer	Sampling for COVID-19 testing purposes	Site



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS  Nasopharyngeal swabs (throat and nasal) (dry swabs and swabs in Viral Transport Media (VTM))	<p><u>Virology Testing</u></p> <p>Detection of SARS-CoV-2 (COVID-19) virus specific gene sequences (N1 gene and E gene) for subsequent clinical interpretation at private or NHS facilities by medically qualified personnel to include testing for the following purposes:</p> <p>General Population Detection of SARS-CoV-2 (COVID-19) virus RNA using molecular methods or antigen POCT</p> <p>Test to Release 5 Day Detection of SARS-CoV-2 (COVID-19) virus RNA using molecular methods</p> <p>Detection of SARS-CoV-2 RNA (COVID-19) virus specific gene sequences using the GSD ViroBOAR SARS-CoV-2 RNA detection kit. Target: Two specific regions of the SARS-CoV-2 N gene</p> <p>For General Population testing and Test to release (TTR) and day 2 and 8 international arrivals (IA)</p> <p>With clinical interpretation by medically qualified personnel</p>	<p>Documented In-House Methods including DHSC requirements for private providers of COVID-19 testing</p> <ul style="list-style-type: none"> <li>- Extraction using GSD ViroBOAR SARS-CoV-2 RNA detection kit and TANBead Maelstrom 9600 and Kingfisher Flex extraction platforms plus Nayo 96 and Multiflo FX pipetting Platforms</li> <li>- Detection using the GSD ViroBOAR SARS-CoV-2 RNA detection kit, ABI 7500 FAST, QuantStudio 5 and Agilent AriaMx platforms</li> </ul>	Teddington





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES	<u>Forensic Testing (cont'd)</u>		
Blood	Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Environmental Samples	Documented In-House Methods using manual/automated extraction - Auto-Lys - Qiagen DNA Investigator STAR DART Manual Auto-Lys - Thermo Scientific™ KingFisher™ Flex Purification System	Birchwood Park
- Stains			
Semen			
- Whole - Azoospermic			
Saliva	Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented In-House Methods using manual/automated extraction - Qiagen DNA Investigator - Qiagen Maxi Kit - AutoLys	Birchwood Park
- Stains			
- Swabs			
Hair			
Cellular Material	Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented In-House Method using automated quantification - Power Quant	Birchwood Park
- Ammunition and heavy non-porous objects			
Swabs	Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented In-House Methods using automated amplification (PCR) and the following chemistry: - ESI 17 fast - Y23	Birchwood Park
Body Tissue			
- Bone - Teeth			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u>	Documented In-House Method using <ul style="list-style-type: none"> <li>- Electrophoresis</li> <li>- Applied Biosystems 3500 Genetic Analyser©</li> </ul>	Birchwood Park
Product of Conception	Short Tandem Repeat (STR) DNA profiling for forensic analysis of foetal tissue	Documented In-House method using manual/automated extraction <ul style="list-style-type: none"> <li>- Qiagen mini kit</li> </ul>	Birchwood Park
Product of Conception	Short Tandem Repeat (STR) DNA profiling for forensic analysis of foetal tissue (cont'd)	Documented in house methods using manual/automated amplification: <ul style="list-style-type: none"> <li>- ESI 17 fast</li> <li>- Y-23</li> </ul>	Birchwood Park
Product of Conception	Short Tandem Repeat (STR) DNA profiling for forensic analysis of foetal tissue (cont'd)	Documented In-House Methods using Electrophoresis <ul style="list-style-type: none"> <li>- Applied Biosystems 3500 Genetic Analyser©</li> </ul>	Birchwood Park
Blood - FTA cards	DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of:	Documented In-House Methods using manual/automated extraction <ul style="list-style-type: none"> <li>- Qiagen DNA Investigator</li> <li>- Qiagen Maxi Kit</li> <li>- AutoLys</li> </ul>	Birchwood Park
Saliva - FTA Cards	- Subject Samples	Documented In-House Methods using Manual quantification <ul style="list-style-type: none"> <li>- Power Quant</li> </ul>	Birchwood Park
		Documented In-House Methods using Manual amplification (PCR) and the following chemistry: <ul style="list-style-type: none"> <li>- ESI 17 fast</li> <li>- Y23</li> <li>- Promega Fusion 6C</li> </ul>	Birchwood Park



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood - FTA cards	DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Subject Samples	Documented In-House Method using Electrophoresis Applied Biosystems 3500 Genetic Analyser©	Birchwood Park
Saliva - FTA Cards			
Blood - Stains	Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented In-House Methods using manual extraction - Qiagen DNA Investigator STAR - EZ1 - Qiagen DNA Investigator STAR DART Manual AutoLys	Lambeth
Semen - Whole - Azoospermic			
Saliva - Stains - Swabs			
Hair			
Cellular Material - Ammunition and heavy non-porous objects		Documented In-House Methods using automated quantification - Power Quant	Lambeth
		Documented In-House Methods using automated amplification (PCR) and the following chemistry: - ESI 17 fast - Y23	Lambeth
		Documented In-House Methods using Electrophoresis Applied Biosystems 3500 Genetic Analyser©	Lambeth



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood	Short Tandem Repeat (STR) DNA profiling for forensic analysis of: Subject Samples (PACE and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented In-House Methods using manual/automated (Hamilton) extraction - Promega swab solution	Birchwood Park Lambeth
- Whole			
- Swabs			
- Stains			
Saliva			
- Swabs (buccal cells)			
Hair		Documented In-House Method using Manual quantification	
Body Tissue		- Power Quant	
- Swabs (including muscle)			
- Muscle (Birchwood Park only)		Documented In-House Methods using Manual amplification (PCR) and the following chemistry:	
Cellular Material		- ESI 17 fast (direct)	
- Surrogate reference samples (e.g. toothbrushes)		- Y23	
	<u>Related Opinions and Interpretation</u>	Documented In-House Methods using - Electrophoresis Applied Biosystems 3500 Genetic Analyser©	
	Interpretation and analysis of DNA profiles:	Documented In-House methods using	Lambeth Birchwood Park
	• ESI 17 fast	- Genetic	
	• Y23 (Lambeth only)	Characterisation	
	• Fusion 6C (Birchwood Park only)	○ GMIDX 1.3 (not Lambeth)	
		○ Insight	





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BODY FLUIDS and TISSUES (cont'd)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Comparison, interpretation and statistical analysis of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)</p>	<p>Documented In-House methods EFS-BM-1409, EFS-Bm-1466, EFS-BM-1646, EFS-BM1661, EFS-BM-1662, EFS-BM-1737, EFS-BM-1767, EFS-BM-1923, EFS-BM-2055, EFS BM-2061, EFS-BM-2559, EFS-BM-2587, EFS-BM-683, LGCF-BM-1477</p> <ul style="list-style-type: none"> <li>o Insight</li> <li>o Golden gate</li> <li>o MatchProb</li> <li>o Mix-It</li> <li>o Lira 3.0 (ESI17 profiles only)</li> <li>o YHRD</li> </ul>	<p>Culham Birchwood Park Tamworth Wakefield</p>
Saliva - Swabs (buccal cells)	<p><u>Related Opinions and Interpretation</u></p> <p>Interpretation of DNA profiles generated from other accredited laboratories from reference samples</p>	<p>Documented In-House methods using:</p> <ul style="list-style-type: none"> <li>- Genetic Characterisation</li> <li>- GeneMarker HID v2.9</li> <li>- Insight</li> </ul>	<p>Lambeth</p>
BODY FLUIDS and TISSUES	<p><u>Forensic Relationship Analysis</u></p> <p>Comparison, interpretation and statistical analysis of ESI 17 DNA profiles against compatible DNA Profile information from within submitted cases</p> <ul style="list-style-type: none"> <li>- Paternity</li> <li>- Maternity</li> <li>- Sibling</li> </ul>	<p>Documented In-House methods</p> <ul style="list-style-type: none"> <li>- Genetic Characterisation <ul style="list-style-type: none"> <li>o Insight</li> <li>o GPS-ibd</li> </ul> </li> </ul>	<p>Wakefield</p>



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Relationship Analysis</u> (cont'd)		
	Comparison, interpretation and statistical analysis of Y23 DNA profiles against compatible DNA Profile information from within submitted cases	Documented In-House methods - Genetic Characterisation o Insight o YHRD	Wakefield Culham Birchwood Park Tamworth
	Comparison, interpretation and statistical analysis of Y23 DNA profiles against compatible DNA Profile information from within submitted cases - Paternity - Sibling	- Genetic Characterisation o Insight o YHRD o GPS-ibd	Wakefield
Blood - Whole - Swabs - Stains Saliva - Swabs (buccal cells) Hair Body Tissue - Swabs (including muscle) - Muscle Cellular Material - Surrogate reference samples (e.g. toothbrushes)	DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of: Subject Samples (PACE and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database Database samples (VED/SED and PED)	Documented In-House Methods using manual/automated (Hamilton) extraction - Promega swab solution - Chelex  Documented In-House Methods using Manual quantification - Qiagen Quantiplex  Documented In-House Methods using automated amplification (PCR) and the following chemistry: - ESI17 Fast (Direct)  Documented In-House Methods using Electrophoresis Applied Biosystems 3500 Genetic Analyser©	Birchwood Park



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BODY FLUIDS and TISSUES (cont'd)	<u>Related Opinions and Interpretation</u>		
	Interpretation and analysis of DNA profiles	Documented In-House methods -Genetic Characterisation -Insight	Birchwood Park
Any Material	Searching for: - Blood - Semen - Saliva - Faeces (not Culham) - Urine (not Culham) - Hairs	Documented In-House EFS-BM-1336 and specific methods listed belows using: - visual examination - white light and filtered light - low power microscopy - high power microscopy chemical testing (see below)	Culham Birchwood Park Tamworth Wakefield
Any Material	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis at an accredited laboratory of the following from searched materials and swabs: - Blood - Semen - Saliva - Faeces (not Culham) - Urine (not Culham) - Hairs - Cellular Material	Documented In-House Methods methods EFS-BM-186 and EFS-BM-787 using: - cutting - swabs and swabbing - EFS-BM-229 extraction of stained materials - EFS-BM-229 extraction of swabs - taping - EFS-BM-229 extraction of semen from tapes (Wakefield and Tamworth only) - mini-taping	Culham Birchwood Park Tamworth Wakefield



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u>		
Any Material (not Lambeth) Swabs Mini-tapes Cigarette butts Chewing gum	Recovery and preparation for subsequent DNA analysis at an accredited laboratory of the following from searched materials and swabs: - Blood - Cellular Material	Documented In-House Methods methods: EFS-BM-2602, EFS-BM-2603, EFS BM1583, EFS-BM-787 and EFS-DNAM-2884 (Lambeth only) using: - cutting - swabs and swabbing (not Lambeth) - mini-taping (not Lambeth)	Birchwood Park Lambeth Tamworth Wakefield
Products of conception	Forensic examination of in order to determine paternity of the aborted foetus in criminal cases	Documented In-House Methods	Wakefield
Any Material	Recovery and preparation for subsequent DNA analysis or for contingency purposes of the following from searched materials and swabs: - Cellular Material	Documented In-House method EFS-BM-FM-1570 using: - swabs and swabbing - mini-taping	Leeds
Any Material	Recovery and preparation for Subsequent DNA analysis or for Preservation for contingency Purposes - Cellular Material	Documented In-House Method EFS-DM-1315a  - swabs and swabbing - mini-taping - cutting	Heathrow
Blood	Presumptive testing for Blood via detection of: - Peroxidase - Human Haemoglobin	Documented In-House method EFS-BM-018 using: - KM (Kastle Meyer) - - EFS-BM-231 Hemastix (Culham only) - EFS-BM-322 Hematrace	Culham Birchwood Park Tamworth  Wakefield



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood Swabs	Presumptive testing for Blood via detection of: - Peroxidase	Documented In-House Methods using: - KM (Kastle Meyer)	Lambeth
Blood	<u>Related Opinions and Interpretations</u>  Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented In-House Methods EFS-BM-600 and ENF-BM-601 using: - visual examination low power microscopy	Culham Birchwood Park Tamworth Wakefield
Semen	Presumptive testing for seminal fluid, via detection of: - Acid Phosphatase - Choline	Documented In-House Methods using: - EFS-BM-378 Visual Examination - EFS-BM-378 Acid phosphatase detection (colour reaction) - EFS-BM-381 Choline detection by Florence Iodine test (not Culham)	Culham Birchwood Park Tamworth Wakefield
Semen	Confirmatory testing for seminal fluid via identification of: - Spermatozoa	Documented In-House Method method EFS-BM-380 using: - High power microscopy - Christmas Tree staining - Haematoxylin and Eosin staining	Culham Birchwood Park Tamworth Wakefield
Saliva	Presumptive testing for saliva via detection of: - Amylase	Documented In-House Method method EFS-BM-064 using: - Visual examination - Amylase Paper - Phadebas paper - Phadebas tube test (not Culham)	Culham Birchwood Park Tamworth Wakefield



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Urine	Presumptive testing for Urine via detection of: - Urea	Documented In-House Method method EFS-BM-706 using: - Visual examination - DMAC - Creatinine test	Birchwood Park Tamworth Wakefield
Faeces	Presumptive testing for Human Faeces via detection of: - Urobilinogen	Documented In-House Method method EFS-BM-456 using: - Visual examination - High energy light - Schlesinger's test	Birchwood Park Tamworth Wakefield
Hairs	Differentiation of Human and Animal hairs	Documented In-House Method method EFS-BM-062 using: - visual examination - low power microscopy - high power microscopy	Tamworth
Alcohol Technical Defence (in relation to RTA and sexual offences) for sample matrix including Blood/urine/breath	Estimation of alcohol consumption and elimination with respect to validity of drinking patterns: 1) Effect of alleged post accident alcohol consumption on measured breath/body fluids alcohol levels 2) Effect of alleged spiked drink 3) Back calculations of breath/ blood alcohol levels to the time of accident or other incident from 8.7 µg %/20mg% and above	Documented in House method using mathematical calculations	Heathrow
Blood / Urine (Preserved, Unpreserved)	Confirmation of acetone (cut-off 2mg/100mL), ethanol (cut-off 3mg/100mL), methanol (cut-off 4mg/100mL)	Documented in House method EFS-TM-3457 using GC-FID	Heathrow



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood / Urine (Preserved, Unpreserved)	Identification and quantification of alcohol (ethanol) (>10mg/100ml)	Documented in House method EFS-TM-3457 using: - GC-FID	Heathrow
Blood / Urine (Preserved, Unpreserved)	Identification and quantification of alcohol (ethanol) (>10mg/100ml)	Documented in House method EFS-TM-058 using: - GC-FID	Teddington
Blood / Urine (Preserved, Unpreserved)	Detection and quantification of alcohol in relation to the Road Traffic Act (>10mg/100ml)	Documented in House method EFS-TM-2248 using: - GC-FID	Teddington
Blood / Urine (Preserved, Unpreserved)	Detection and quantification of alcohol in relation to the Road Traffic Act (>10mg/100ml)	Documented in House method EFS-TM-3457 using: - GC-FID	Heathrow
Blood (Preserved, Unpreserved)	Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014:  Delta-9-tetrahydrocannabinol (THC) (2 µg/L) 11-nor-Delta-9-tetrahydrocannabinolic acid (THC-acid) (5-50 µg/L)	Documented in House method EFS-TM-1704 using: - Solid Phase Extraction - GC-MS-MS	Heathrow
Blood (Preserved, Unpreserved)	Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014:  Delta-9-tetrahydrocannabinol (THC) (2 µg/L) 11-nor-Delta-9-tetrahydrocannabinolic acid (THC-acid) (5-50 µg/L)	Documented in House method EFS-TM-3448 using: - Pipetting Robot Liquid Handling System - Protein Precipitation - Solid Phase Extraction - LCMSMS	Heathrow



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Blood (Preserved, Unpreserved) (cont'd)	<p>Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014:</p> <p>Amphetamine (250 µg/L) Benzoyllecgonine (50 µg/L) Clonazepam (50 µg/L) Cocaine (10 µg/L) Diazepam (550 µg/L) Flunitrazepam (300 µg/L) Ketamine (20 µg/L) Lorazepam (100 µg/L) Lysergic Acid Diethylamide – LSD (1µg/L) Methadone (500 µg/L) Methylamphetamine (10 µg/L) Methylenedioxymethamphetamine – MDMA (10 µg/L) 6-Monoacetylmorphine (5 µg/L) Morphine (80 µg/L) Oxazepam (300 µg/L) Temazepam (1000 µg/L)</p>	<p>Documented in House method EFS-TM-1812 using:</p> <ul style="list-style-type: none"> <li>- Protein precipitation</li> <li>- Solid Phase Extraction</li> <li>- LC-MS-MS</li> </ul>	Heathrow
	<p>Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014:</p> <p>Amphetamine (250 µg/L) Benzoyllecgonine (50 µg/L) Clonazepam (50 µg/L) Cocaine (10 µg/L) Diazepam (550 µg/L) Flunitrazepam (300 µg/L) Ketamine (20 µg/L) Lorazepam (100 µg/L) Lysergic Acid Diethylamide – LSD (1µg/L) Methadone (500 µg/L) Methylamphetamine (10 µg/L) Methylenedioxymethamphetamine – MDMA (10 µg/L) 6-Monoacetylmorphine (5 µg/L) Morphine (80 µg/L) Oxazepam (300 µg/L) Temazepam (1000 µg/L)</p>	<p>Documented In-House method EFS-TM-3144 using:</p> <ul style="list-style-type: none"> <li>- Pipetting Robot Liquid Handling System</li> <li>- Protein precipitation</li> <li>- Solid Phase Extraction</li> <li>- LC-MS-MS</li> </ul>	Heathrow





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)  Blood (Preserved/ Unpreserved)	Confirmation and Quantification of the following drugs; (Cut-off; Concentration range)  6-Monoacetylmorphine (0.25 ng/mL; 0.5–25 ng/mL) Alprazolam 2.5 ng/mL; 5–250 ng/mL) Amphetamine (10 ng/mL; 20–1000 ng/mL) Buprenorphine (0.25 ng/mL; 1–25 ng/mL) Butylone (2.5 ng/mL; 5–250 ng/mL) Benzoyllecgonine (10 ng/mL; 20–1000 ng/mL) Benzylpiperazine* (confirmation only) (20 ng/mL) Cocaethylene (2.5 ng/mL; 5–250 ng/mL) Clonazepam (5 ng/mL; 5–250 ng/mL) Cocaine (2.5 ng/mL; 5–50 ng/mL) Codeine (2.5 ng/mL; 5–250 ng/mL) Chlorophenylpiperazine (2.5 ng/mL; 5–250 ng/mL) Dihydrocodeine (2.5 ng/mL; 5–250 ng/mL) Diazepam (25 ng/mL; 50–2500 ng/mL) Desmethyldiazepam (25 ng/mL; 50–2500 ng/mL) Flunitrazepam (10 ng/mL; 20–1000 ng/mL) Ketamine (2.5 ng/mL; 5–250 ng/mL) Lorazepam (2.5 ng/mL; 5–250 ng/mL) LSD (0.25 ng/mL; 0.5–25 ng/mL) Methamphetamine (2.5 ng/mL; 5–250 ng/mL) MDA (10 ng/mL; 20–1000 ng/mL) MDMA (2.5 ng/mL; 5–250 ng/mL)	Documented In-House method EFS-TM-3144 (automated) using;  - Pipetting Robot Liquid Handling System - Protein precipitation - Solid Phase Extraction - LC-MS-MS	Heathrow



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)  Blood (Preserved/ Unpreserved)	Confirmation and Quantification of the following drugs; (Cut-off; Concentration range)  Methadone (25 ng/mL; 50–2500 ng/mL) MDPV (2.5 ng/mL; 5–250 ng/mL) Methylethcathinone (2.5 ng/mL; 5–250 ng/mL) Mephedrone (2.5 ng/mL; 5–250 ng/mL) Methylone (2.5 ng/mL; 5–250 ng/mL) Morphine (2.5 ng/mL; 5–250 ng/mL) Oxazepam (10 ng/mL; 20–1000 ng/mL) Phenazepam (2.5 ng/mL; 5–250 ng/mL) Temazepam (25 ng/mL; 50–2500 ng/mL) TFMPP (2.5 ng/mL; 5–250 ng/mL) Tramadol (10 ng/mL; 20–1000 ng/mL) Trazodone (5ng/mL) (confirmation only) (Heathrow only)) Zopiclone (5 ng/mL; 5–250 ng/mL)	Documented In-House method EFS-TM-3144 (automated) using;  Protein precipitation - Pipetting Robot Liquid Handling System - Solid Phase - Extraction - LC-MS-MS	Heathrow
Blood (Preserved, Unpreserved)	Presumptive screening for the presence of drugs of abuse (Cut-off; Concentration range)  Drug types/groups: Cannabinoids (10µg/L; 5-50µg/L)	Documented in house method EFS-TM-2058 using:  - Solid Phase Extraction - GC-MS-MS	Heathrow



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Blood (preserved, unpreserved), Urine (preserved, unpreserved)	<p>Presumptive screening for the presence of drugs of abuse and medicinal drugs (Cut-off):</p> <p>Amitriptyline (100 ng/mL) Amphetamine (50ng/mL) Benzylpiperazine (100ng/mL) Butylone (100ng/mL) Caffeine (500ng/mL) Chlorophenylpiperazine (100ng/mL) Chlorphenamine (100ng/mL) Chlorpromazine (100ng/mL) Citalopram (100ng/mL) Clozapine (100ng/mL) Cocaine (100ng/mL) Codeine (100ng/mL) Cyclizine (100ng/mL) Desipramine (100ng/mL) Desmethyldiazepam (DMD) (500ng/mL) Dextropropoxyphene (100ng/mL) Diazepam (500ng/mL) Diphenhydramine (100ng/mL) Dosulepin/Dothiepin (100ng/mL) Fentanyl (10ng/mL) Fluoxetine (200ng/mL) Fluvoxamine (200ng/mL) Imipramine (100 ng/mL) Ketamine (100 ng/mL) Lamotrigine (500ng/mL) Mephedrone (100ng/mL) Methadone (100ng/mL) Methylamphetamine (50ng/mL) Methylenedioxypropylamphetamine (MDPV) (100ng/mL) Naphyrone (100ng/mL) Nicotine (500ng/mL) Nortriptyline (100ng/mL) Olanzapine (50ng/mL) Oxycodone (50ng/mL) Paroxetine (200ng/mL) Pentylone (100ng/mL) Pethidine (100ng/mL) PMMA (para-Methoxy-N-methylamphetamine) (50ng/mL)</p>	<p>Documented in House method EFS-TM-617 using:</p> <ul style="list-style-type: none"> <li>- Liquid-Liquid extraction</li> <li>- GC-MS</li> </ul>	Heathrow



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Blood (preserved, unpreserved), Urine (preserved, unpreserved) (cont'd)	Presumptive screening for the presence of drugs of abuse and medicinal drugs (Cut-off):  Procyclidine (100ng/mL) Promethazine (50ng/mL) Propranolol (200ng/mL) Sertraline (100ng/mL) Tramadol (100ng/mL) Trazodone (500ng/mL) Trifluromethylphenylpiperazine (100ng/mL) Venlafaxine (100ng/mL) Zolpidem (100 ng/mL) Zopiclone (200 ng/mL)	Documented in House method EFS-TM-617 using: - Liquid-Liquid extraction - GC-MS	Heathrow
Blood (Preserved, Unpreserved)	Presumptive screening for the presence of drugs of abuse (Cut-off):  Amitriptyline (5ng/mL;2.5ng/mL) Amphetamine (5ng/mL;12.5ng/mL) Benzylpiperazine (25ng/mL;250ng/mL) Butylone (10ng/mL;10ng/mL) Caffeine (500ng/mL;500ng/mL) Chlorophenylpiperazine (25ng/mL;25ng/mL) Chlorphenamine (2.5ng/mL;2.5ng/mL) Chlorpromazine (10ng/mL;10ng/mL) Citalopram (5ng/mL;5ng/mL) Clozapine (5ng/mL;5ng/mL) Cocaine (10ng/mL;5ng/mL) Codeine (25ng/mL;25ng/mL) Cyclizine (2.5ng/mL;2.5ng/mL) Desipramine (10ng/mL;10ng/mL) Desmethyldiazepam (DMD) (50ng/mL;50ng/mL) Dextropropoxyphene (2.5ng/mL;2.5ng/mL) Diazepam (50ng/mL;50ng/mL) Diphenhydramine (2.5ng/mL;2.5ng/mL)	Documented in House method EFS-TM-617 using:  - Liquid-Liquid extraction - GC-MS	Teddington



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Blood (Preserved, Unpreserved) (cont'd)	<p>Presumptive screening for the presence of drugs of abuse (Cut-off):</p> <p>Dosulepin (2.5ng/mL;2.5ng/mL) Dothiepin Fentanyl (2.5ng/mL;2.5ng/mL) Fluoxetine (50ng/mL;20ng/mL) Fluvoxamine (200ng/mL;200ng/mL) Hydroxyzine (50ng/mL;50ng/mL) Imipramine (2.5ng/mL;2.5ng/mL) Ketamine (2.5ng/mL;2.5ng/mL) Lamotrigine (50ng/mL;50ng/mL) Mephedrone (10ng/mL;25ng/mL) Methadone (5ng/mL;5ng/mL) Methylamphetamine (12.5ng/mL;12.5ng/mL) Methylenedioxypropylamphetamine (MDPV) (10ng/mL;10ng/mL) Methylethcathinone (MEC) (10ng/mL;10ng/mL) Methylone (10ng/mL;25ng/mL) MDMA (3,4-methylenedioxy-N-methylamphetamine) (5ng/mL;5ng/mL) Midazolam (5ng/mL;5ng/mL) Mirtazapine (5ng/mL;5ng/mL) Naphyrone (10ng/mL;10ng/mL) Nicotine (5ng/mL;5ng/mL) Nortriptyline (25ng/mL;25ng/mL) Olanzapine(5ng/mL;5ng/mL) Oxycodone(25ng/mL;25ng/mL) Paroxetine (50ng/mL;50ng/mL) Pentylone (5ng/mL;5ng/mL) Pethidine (2.5ng/mL;2.5ng/mL) PMMA (para-Methoxy-N-methylamphetamine) (5ng/mL;5ng/mL) Procyclidine (5ng/mL;5ng/mL) Promethazine (12.5ng/mL;5ng/mL) Propranolol (50ng/mL;50ng/mL) Quetiapine (200ng/mL;200ng/mL) Sertraline (10ng/mL;10ng/mL) Tramadol (5ng/mL;5ng/mL) Trazodone (50ng/mL;50ng/mL) Trifluromethylphenylpiperazine (2.5ng/mL;2.5ng/mL) Venlafaxine (10ng/mL;10ng/mL) Zolpidem (2.5ng/mL;2.5ng/mL) Zopiclone (50ng/mL;50ng/mL)</p>	Documented in House method EFS-TM-617 using:	Heathrow



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)  Urine (Preserved, Unpreserved)	<u>Forensic Analysis</u> (cont'd)  Presumptive screening for the presence of drugs of abuse (Cut-off):  Amitriptyline (2.5ng/mL;2.5ng/mL) Amphetamine (5ng/mL;12.5ng/mL) Benzylpiperazine (25ng/mL;250ng/mL) Butylone (10ng/mL;10ng/mL) Caffeine (500ng/mL;500ng/mL) Chlorophenylpiperazine (10ng/mL;10ng/mL) Chlorphenamine (2.5ng/mL;2.5ng/mL) Chlorpromazine (5ng/mL;10ng/mL) Citalopram (5ng/mL;5ng/mL) Clozapine (5ng/mL;5ng/mL) Cocaine (25ng/mL;10ng/mL) Codeine (25ng/mL;25ng/mL) Cyclizine (2.5ng/mL;2.5ng/mL) Desipramine (5ng/mL;5ng/mL) Desmethyldiazepam (DMD) (50ng/mL;50ng/mL) Dextropropoxyphene (2.5ng/mL;2.5ng/mL) Diazepam (50ng/mL;50ng/mL)  Diphenhydramine (2.5ng/mL;2.5ng/mL) Dosulepin (2.5ng/mL;2.5ng/mL) Fentanyl (2.5ng/mL;2.5ng/mL) Fluoxetine (20ng/mL;20ng/mL) Fluvoxamine (200ng/mL;200ng/mL) Hydroxyzine (50ng/mL;50ng/mL) Imipramine (2.5ng/mL;2.5ng/mL)  Ketamine (2.5ng/mL;2.5ng/mL)	Documented in House method EFS-TM-617 using:  - Liquid-Liquid extraction GC-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Urine (Preserved, Unpreserved)	<u>Forensic Analysis</u> (cont'd)  Presumptive screening for the presence of drugs of abuse (Cut-off):  Lamotrigine (50ng/mL;50ng/mL) Mephedrone (10ng/mL;25ng/mL) Methadone (5ng/mL;5ng/mL) Methylamphetamine (12.5ng/mL;12.5ng/mL) Methylenedioxypropylamphetamine (MDPV) (10ng/mL;10ng/mL) Methylethcathinone (MEC) (10ng/mL;10ng/mL) Methylone (10ng/mL;25ng/mL) MDMA (3,4-methylenedioxy-N-methylamphetamine) (5ng/mL;5ng/mL) Midazolam (5ng/mL;5ng/mL) Mirtazapine (5ng/mL;5ng/mL) Naphyrone (10ng/mL;10ng/mL) Nicotine (5ng/mL;5ng/mL) Nortriptyline (25ng/mL;25ng/mL) Olanzapine(5ng/mL;5ng/mL) Oxycodone(25ng/mL;25ng/mL) Paroxetine (50ng/mL;50ng/mL) Pentylone (5ng/mL;5ng/mL) Pethidine (2.5ng/mL;2.5ng/mL) PMMA (para-Methoxy-N-methylamphetamine) (5ng/mL;5ng/mL) Procyclidine (5ng/mL;5ng/mL) Promethazine (12.5ng/mL;5ng/mL) Propranolol (50ng/mL;50ng/mL) Quetiapine (200ng/mL;200ng/mL) Sertraline (10ng/mL;10ng/mL) Tramadol (5ng/mL;5ng/mL) Trazodone (50ng/mL;50ng/mL) Trifluoromethylphenylpiperazine (2.5ng/mL;2.5ng/mL) Venlafaxine (10ng/mL;10ng/mL) Zolpidem (2.5ng/mL;2.5ng/mL) Zopiclone (50ng/mL;50ng/mL)	Documented in House method EFS-TM-617 using:  - Liquid-Liquid extraction GC-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Blood/Urine (Preserved, Unpreserved)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Presumptive screening for the presence of drugs of abuse (Cut-off Blood;Urine )</p> <p>-7-Aminoclonazepam (0.005mg/L; 0.005mg/L) 7-Aminoflunitrazepam (0.001mg/L; 0.002mg/L) 7-Aminonitrazepam (0.005mg/L; 0.005mg/L) Alprazolam (0.001mg/L; 0.002mg/L) Amobarbital (2mg/L; 2mg/L) Bromazepam (0.001mg/L; 0.002mg/L) Chlordiazepoxide (0.005mg/L; 0.005mg/L) Clobazam (0.005mg/L; 0.005mg/L) Clonazepam (0.001mg/L; 0.001mg/L) Demoxepam (0.005mg/L; 0.005mg/L) Desalkylflurazepam (0.005mg/L; 0.005mg/L) Desmethyldiazepam (0.005mg/L; 0.005mg/L) Diazepam (0.005mg/L; 0.005mg/L) Diclazepam (0.001mg/L; 0.002mg/L) Etizolam (0.001mg/L; 0.001mg/L) Flubromazolam (0.001mg/L; 0.001mg/L) Flunitrazepam (0.001mg/L; 0.001mg/L) Flurazepam (0.001mg/L; 0.001mg/L) Lorazepam (0.001mg/L; 0.002mg/L)</p>	<p>Documented in house method EFS-TM-1903 using:</p> <ul style="list-style-type: none"> <li>- Protein precipitation</li> <li>- Solid-phase extraction</li> <li>- UPLC/QExactive Orbitrap-MS</li> </ul>	Heathrow





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Blood/Urine (Preserved, Unpreserved)	<p>Presumptive screening for the presence of drugs of abuse (Cut-off Blood;Urine )</p> <p>Analgesic and Anti-Inflammatory Group:</p> <ul style="list-style-type: none"> <li>- Baclofen (Blood 0.1 mg/L; Urine 0.1 mg/L)</li> <li>- Diclofenac (1 mg/L; 1 mg/L)</li> <li>- Furosemide (1 mg/L; 1mg/L)</li> <li>- Ibuprofen (5 mg/L; 5 mg/L)</li> <li>- Naproxen (5 mg/L; 5 mg/L)</li> <li>- Paracetamol (5 mg/L; 25 mg/L)</li> <li>- Salicylic Acid (1 mg/L; 1 mg/L)</li> <li>- Warfarin (0.25 mg/L; 0.25 mg/L)</li> </ul> <p>Anticonvulsant Group</p> <ul style="list-style-type: none"> <li>- Carbamazepine (1 mg/L; 1 mg/L)</li> <li>- Gabapentin (1mg/L; 1 mg/L)</li> <li>- Levetiracetam (10 mg/L; 20 mg/L)</li> <li>- Phenytoin (1mg/L; 1 mg/L)</li> <li>- Pregabalin (1mg/L; 1 mg/L)</li> <li>- Primidone (1mg/L; 2 mg/L)</li> <li>- Topiramate (1 mg/L; 1 mg/L)</li> <li>- Valproic Acid (5 mg/L; 5 mg/L)</li> <li>- Zonisamide (1 mg/L; 1 mg/L)</li> </ul> <p>Others</p> <ul style="list-style-type: none"> <li>- Methylphenidate (0.1 mg/L; 0.1 mg/L)</li> <li>- Ethylphenidate (0.001 mg/L; 0.005 mg/L)</li> <li>- Ritalinic Acid (0.005 mg/L; 0.005 mg/L)</li> <li>- Theophylline (10 mg/L; 10 mg/L)</li> </ul>	<p>Documented in house method EFS-TM-1903 using:</p> <ul style="list-style-type: none"> <li>- Protein precipitation</li> <li>- Solid-phase extraction</li> <li>- UPLC/QExactive Orbitrap-MS</li> </ul>	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Blood/Urine (Preserved, Unpreserved)	<u>Forensic Analysis</u> (cont'd)  Presumptive screening for the presence of drugs of abuse (Cut-off Blood;Urine) cont'd  Lormetazepam (0.001mg/L; 0.001mg/L) Midazolam (0.001mg/L; 0.002mg/L) Nifoxipam (0.001mg/L; 0.001mg/L) Nitrazepam (0.005mg/L; 0.005mg/L) Oxazepam (0.005mg/L; 0.002mg/L) Phenazepam (0.005mg/L; 0.005mg/L) Penobarbital (2mg/L; 2mg/L) Pentobarbital (2mg/L; 2mg/L) Quinalbarbitone (secobarb) (2mg/L; 2mg/L) Sildenafil (0.01mg/L; 0.01mg/L) Tadalafil (0.02mg/L; 0.02mg/L) Temazepam (0.005mg/L; 0.005mg/L) Thiopental (2mg/L; 2mg/L) Triazolam (0.001mg/L; 0.001mg/L) Vardenafil (0.01mg/L; 0.01mg/L) Zaleplon (0.002mg/L; 0.004mg/L) Zolpidem (0.001mg/L; 0.001mg/L) Zopiclone (0.001mg/L; 0.002mg/L)	Documented in house method EFS-TM-1903 using:  - Solid-phase extraction - UPLC/QExactive Orbitrap-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off) of the following drugs (cut-off): EDDP (0.005mg/L) Cathinone (0.00125mg/L) Methylone (0.005mg/L) 7-Aminonitrazepam (0.001mg/L)	Documented In-House Method EFS-TM-1713 using: - Protein precipitation - Solid-phase extraction - LC-MS-MS	Heathrow
Blood (Preserved, Unpreserved)	Confirmation and Quantitative Analysis of the following drugs (Cut-off Limit; Concentration Range)  Amphetamines Amphetamine (0.00125mg/L; 0.005-0.4mg/L) Methylamphetamine (0.00125mg/L; 0.005-0.4mg/L) MBDB (0.00125mg/L; 0.005-0.4mg/L) MDA (0.005mg/L; 0.025-0.4mg/L) MDEA (0.00125mg/L; 0.005-0.4mg/L) MDMA (0.00125mg/L; 0.005-0.4mg/L) MDPV (0.00125mg/L; 0.005-0.4mg/L) PMA (0.00125mg/L; 0.005-0.4mg/L) PMMA (0.00125mg/L; 0.005-0.4mg/L)  Cathinones Butylone (0.00125mg/L; 0.005-0.4mg/L) Mephedrone (0.00125mg/L; 0.005-0.4mg/L) Methylethcathinone (0.00125mg/L; 0.005-0.4mg/L) Pentylone (0.00125mg/L; 0.005-0.4mg/L)	Documented In-House Method EFS-TM-1713 using:  - Protein precipitation - Solid-phase extraction - LC-MS-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved)	Confirmation and Quantitative Analysis of the following drugs (Cut-off Limit; Concentration Range)  Opiates/Opioids 6-monoacetylmorphine (6MAM) (0.00025mg/L; 0.001-0.08mg/L) Buprenorphine (0.00025mg/L; 0.001-0.08mg/L) Codeine (0.00125mg/L; 0.005-0.4mg/L) Dihydrocodeine (0.00125mg/L; 0.005-0.4mg/L) Fentanyl (0.000125mg/L; 0.0005-0.04mg/L) Methadone (0.00125mg/L; 0.005-0.4mg/L) Morphine (0.00125mg/L; 0.005-0.4mg/L) Naloxone (0.001mg/L; 0.005-0.08mg/L) Noscapine(0.00125mg/L; 0.005-0.4mg/L) Oxycodone(0.00125mg/L; 0.005-0.4mg/L) Oxymorphine (0.00125mg/L; 0.005-0.4mg/L)	Documented In-House Method EFS-TM-1713 using:	Heathrow
Blood (Preserved, Unpreserved) (cont'd)	Confirmation and Quantitative Analysis of the following drugs (Cut-off Limit; Concentration Range)  Papaverine(0.00125mg/L; 0.005-0.4mg/L) Tramadol (0.005mg/L; 0.025-0.4mg/L)  Cocaine group Benzoylecgonine (0.00125mg/L; 0.005-0.4mg/L) Cocaethylene (0.00125mg/L; 0.005-0.4mg/L)	Documented In-House Method EFS-TM-1713 using:  - Protein precipitation - Solid-phase extraction - LC-MS-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Blood (Preserved, Unpreserved) (cont'd)	<u>Forensic Analysis</u> (cont'd)  Confirmation and Quantitative Analysis of the following drugs (Cut-off Limit; Concentration Range) (cont'd)  Cocaine (0.00125mg/L; 0.005-0.4mg/L) Benzodiazepines 7-aminoclonazepam (0.001mg/L; 0.005-0.08mg/L) 7-aminoflunitrazepam (0.001mg/L; 0.005-0.08mg/L) Alprazolam (0.001mg/L; 0.005-0.08mg/L) Bromazepam (0.001mg/L; 0.005-0.08mg/L) Chlordiazepoxide (0.00125mg/L; 0.005-0.4mg/L) Clobazam (0.00125mg/L; 0.005-0.4mg/L) Clonazepam (0.001mg/L; 0.005-0.08mg/L) Demoxepam (0.00125mg/L; 0.005-0.4mg/L) Desalkylflurazepam (0.005mg/L; 0.001-0.08mg/L) Desmethyldiazepam (0.00125mg/L; 0.005-0.4mg/L) Diazepam (0.00125mg/L; 0.005-0.4mg/L) Diclazepam (0.00025mg/L; 0.001-0.08mg/L) Etizolam (0.001mg/L; 0.005-0.08mg/L) Flunitrazepam (0.00025mg/L; 0.001-0.08mg/L) Flurazepam (0.00025mg/L; 0.001-0.08mg/L) Lorazepam (0.001mg/L; 0.005-0.08mg/L) Lormetazepam (0.001mg/L; 0.005-0.08mg/L) Midazolam (0.001mg/L; 0.005-0.08mg/L)	Documented In-House Method EFS-TM-1713 using:  - Protein precipitation - Solid-Phase extraction - LC-MS-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Blood (Preserved, Unpreserved) (cont'd)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Confirmation and Quantitative Analysis of the following drugs (Cut-off Limit; Concentration Range) (cont'd)</p> <p>Nitrazepam (0.001mg/L; 0.005-0.08mg/L) Oxazepam (0.00125mg/L; 0.005-0.4mg/L) Phenazepam (0.00125mg/L; 0.005-0.4mg/L) Temazepam (0.00125mg/L; 0.005-0.4mg/L) Triazolam (0.001mg/L; 0.005-0.08mg/L)</p> <p>Ephedrines Ephedrine (0.00125mg/L; 0.005-0.4mg/L) Norephedrine (0.00125mg/L; 0.005-0.4mg/L) Norpseudoephedrine (0.00125mg/L; 0.005-0.4mg/L) Pseudoephedrine (0.00125mg/L; 0.005-0.4mg/L)</p> <p>Ketamine (0.00125mg/L; 0.005-0.4mg/L) Norketamine (0.00125mg/L; 0.005-0.4mg/L)</p> <p>Piperazines Benzylpiperazine (0.005mg/L; 0.025-0.4mg/L) Chlorophenylpiperazine (0.00125mg/L; 0.005-0.4mg/L) Trifluoromethylphenylpiperazine (0.00125mg/L; 0.005-0.4mg/L)</p>	<p>Documented In-House Method EFS-TM-1713 using:</p> <ul style="list-style-type: none"> <li>- Protein precipitation</li> <li>- Solid-Phase extraction</li> <li>- LC-MS-MS</li> </ul>	Heathrow



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Confirmation and Quantitative Analysis of the following drugs (Cut-off Limit; Concentration Range)  Z Drugs Zaleplon (0.001mg/L; 0.005-0.08mg/L) Zolpidem (0.00025mg/L; 0.001-0.08mg/L) Zopiclone (0.00025mg/L; 0.001-0.08mg/L)	Documented In-House Method EFS-TM-1713 using:  - Protein precipitation - Solid-phase extraction - LC-MS-MS	Heathrow
Blood/Urine (Preserved, Unpreserved)	Qualitative analysis (above specified cut-off limit) of the following drugs (cut-off limit):  Amphetamine type Methylethcathinone (0.01mg/L) Amphetamine, (0.01mg/L) Benzylpiperazine, (0.01mg/L) Butylone, (0.01mg/L) Cathinone, (0.01mg/L) Ephedrine, (0.01mg/L) Chlorophenylpiperazine (CPP), (0.01mg/L) MDA, (0.01mg/L) MDMA, (0.01mg/L) MDPV, (0.01mg/L) Mephedrone, (0.01mg/L) Methylamphetamine, (0.01mg/L) Methylone, (0.01mg/L) Naphyrone, (0.01mg/L) Norephedrine, (0.01mg/L) Pentylone, (0.01mg/L) PMA, (0.01mg/L) PMMA, (0.01mg/L) TFMPP (0.01mg/L)	Documented In-House Method EFS-TM-1711 using:  - Protein precipitation - Solid-phase extraction - LC-MS-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Blood/Urine (Preserved, Unpreserved) (cont'd)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Confirmation of drugs of abuse</p> <p>Opioids Fentanyl, (0.0005mg/L) Buprenorphine, (0.0025mg/L) 6-MAM, (0.0025mg/L) Morphine, (0.005mg/L) Codeine, (0.005mg/L) Dextropropoxyphene, (0.01mg/L) Dihydrocodeine (DHC), (0.005mg/L) EDDP, (0.005mg/L) Methadone, (0.005mg/L) Oxycodone, (0.005mg/L) Oxymorphone, (0.005mg/L) Pethidine, (0.01mg/L) Pholcodine, (0.01mg/L) Tramadol (0.01mg/L)</p> <p>Cocaine Cocaine, (0.005mg/L) Benzoylcegonine (0.01mg/L)</p> <p>Benzodiazepine type Clonazepam, (0.005mg/L) Nitrazepam, (0.005mg/L) Zaleplon, (0.005mg/L) Zolpidem, (0.005mg/L) Zopiclone, (0.005mg/L) 7-Aminoflunitrazepam (0.005mg/L) Alprazolam, (0.005mg/L) Lorazepam, (0.005mg/L) Midazolam, (0.005mg/L) Chlordiazepoxide, (0.01mg/L) Demoxepam, (0.01mg/L) Desmethyldiazepam, (0.01mg/L) Diazepam, (0.01mg/L) Oxazepam, (0.01mg/L) Phenazepam, (0.01mg/L) Temazepam (0.01mg/L)</p>	<p>Documented In-House Method EFS-TM-1711 using:</p> <ul style="list-style-type: none"> <li>- Protein precipitation</li> <li>- Solid-phase extraction</li> <li>- LC-MS-MS</li> </ul>	Heathrow





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BODY FLUIDS and TISSUES (cont'd)  Blood/Urine (Preserved, Unpreserved) (cont'd)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Confirmation of drugs of abuse (above specified cut-off limit):</p> <p>Antidepressant Amitriptyline, (0.01mg/L) Citalopram, (0.01mg/L) Desipramine, (0.01mg/L) Dosulepin (Dothiepin), (0.01mg/L) Duloxetine, (0.005mg/L) Fluoxetine, (0.1mg/L) Fluvoxamine, (0.01mg/L) Imipramine, (0.01mg/L) Mirtazapine, (0.01mg/L) Nortriptyline, (0.01mg/L) Paroxetine, (0.01mg/L) Sertraline, (0.01mg/L) Trazodone, (0.01mg/L) Venlafaxine (0.01mg/L)</p> <p>Antihistamine Chlorpheniramine, (0.01mg/L) Cyclizine, (0.01mg/L) Diphenhydramine, (0.01mg/L) Hydroxyzine, (0.01mg/L) Promethazine (0.01mg/L)</p> <p>Antipsychotic Chlorpromazine, (0.025mg/L) Clozapine, (0.025mg/L) Olanzapine, (0.025mg/L) Quetiapine, (0.025mg/L)</p> <p>Beta Blocker Atenolol (0.05mg/L) Propranolol (0.01mg/L)</p> <p>Other Ketamine, (0.01mg/L) Lamotrigine, (0.05mg/L) Procyclidine, (0.01mg/L) Caffeine (5mg/L)</p>	<p>Documented In-House Method EFS-TM-1711 using:</p> <ul style="list-style-type: none"> <li>- Protein precipitation</li> <li>- Solid-phase extraction</li> <li>- LC-MS-MS</li> </ul>	Heathrow



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)  Urine (Preserved, Unpreserved)	<u>Forensic Analysis (cont'd)</u>  Confirmation of drugs of abuse (above specified cut-off limit):  Amphetamines Amphetamine (1.25ng/mL) MBDB (1.25ng/mL) MDA (1.25ng/mL) MDEA (1.25ng/mL) MDMA (1.25ng/mL) PMA (1.25ng/mL) PMMA (1.25ng/mL) Benzylpiperazine (1.25ng/mL) CPP (1.25ng/mL) TFMPP (1.25ng/mL) Ephedrine (1.25ng/mL) Norephedrine (1.25ng/mL) Norpseudoephedrine (1.25ng/mL) Pseudoephedrine (1.25ng/mL) Methamphetamine (1.25ng/mL) Methylone (1.25ng/mL)  Cathinones Cathinone (1.25ng/mL) Mephedrone (1.25ng/mL) Pentylone (1.25ng/mL) MDPV (1.25ng/mL) Methylethcathinone (1.25ng/mL) Butylone (1.25ng/mL)  Opioids Fentanyl (0.125ng/mL) Buprenorphine (0.25ng/mL) 6-MAM (0.25ng/mL) Morphine (1.25ng/mL) Codeine (1.25ng/mL) Dihydrocodeine (DHC) (1.25ng/mL) Methadone (1.25ng/mL) Oxycodone (1.25ng/mL) Oxymorphone (1.25ng/mL) Tramadol (1.25ng/mL) Naloxone (0.25ng/mL) Noscapine (1.25ng/mL) Papaverine (1.25ng/mL)	Documented In-House Method EFS-TM-1713 using:  - Protein precipitation - Solid-phase Extraction - LC-MS-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)  Urine (Preserved, Unpreserved)	<u>Forensic Analysis</u> (cont'd)  Confirmation of drugs of abuse (above specified cut-off limit)::  Benzodiazepine type Clonazepam (0.25ng/mL) Nitrazepam (0.25ng/mL) Zolpidem (0.25ng/mL) Zopiclone (0.25ng/mL) 7-Aminoflunitrazepam (0.25ng/mL) 7-Aminonitrazepam (0.25ng/mL) Alprazolam (0.25ng/mL) Lorazepam (0.25ng/mL) Midazolam (0.25ng/mL) Chlordiazepoxide (1.25ng/mL) Demoxepam (1.25ng/mL) Desmethyldiazepam (1.25ng/mL) Diazepam (1.25ng/mL) Oxazepam (1.25ng/mL) Phenazepam (1.25ng/mL) Temazepam (1.25ng/mL) 7-Aminoclonazepam (0.25ng/mL) Bromazepam (0.25ng/mL) Clobazam (1.25ng/mL) Desalkylflurazepam (1.25ng/mL) Diclazepam (0.25ng/mL) Etizolam (0.25ng/mL) Flunitrazepam (0.25ng/mL) Flurazepam (0.25ng/mL) Lormetazepam (0.25ng/mL) Triazolam (0.25ng/mL)  Cocaine Cocaine (1.25ng/mL) Cocaethylene (1.25ng/mL) Benzoylecgonine (1.25ng/mL)  Other Ketamine (1.25ng/mL) Norketamine (1.25ng/mL) EDDP (1.25ng/mL) Zaleplon (0.25ng/mL)	Documented In-House Method EFS-TM-1713 using:  -Protein precipitation -Solid-phase extraction -LC-MS-MS	Heathrow



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood	Identification and quantification of carbon monoxide via carboxyhaemoglobin	Documented In-House Method EFS-TM-1585 using: - UV/visible spectrophotometer	Heathrow
Blood	Identification and quantification of Fluoride	Documented In-House Method EFS-TM-621 using: - Ion-selective electrode	Heathrow
Urine	Identification and quantification of Fluoride	Documented In-House Method EFS-TM-621 using: - Ion-selective electrode	Heathrow
Blood	Confirmation and Quantitative Analysis of the following drugs (Concentration Range) Paracetamol (10-500mg/L) Salicylic Acid (20-1000mg/L)	Documented in-house method EFS-TM-2267 using: - Protein precipitation - HPLC	Heathrow
Urine	Identification and quantification of GHB (Gamma-Hydroxybutyrate) (concentration range 3-150mg/L)	Documented in-house method EFS-TM-2244 using: - LCMSMS	Heathrow
DIGITAL DEVICES AND DATA	<u>Forensic Analysis</u>		
Computers			
Computers and digital storage devices - Hard disk drives - Solid state drives - Memory cards - USB flash drives - Compact discs	Physical capture and preservation of data	Documented in-house method EFS-DDFM-1817 using: - Guidance EnCase - AccessData FTK Imager - X-Ways Forensics - Guidance Tableau TD3 - Guidance Tableau T35u - Guidance Tableau T8	Birmingham



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DIGITAL DEVICES AND DATA (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Computers and digital storage devices - Hard disk drives - Solid state drives	Physical capture and preservation of data	Documented in-house method EFS-DDFM-1817 using: - Cellebrite Digital Collector	Birmingham
Computers and digital storage devices - Digital versatile discs - Digital cameras - Floppy disks	Physical capture and preservation of data	Documented in-house method EFS-DDFM-1817 using: - Guidance EnCase	Birmingham
Computers and digital storage devices - Microsoft Windows Tablets	Physical capture and preservation of data	Documented in-house method EFS-DDFM-1817 using: - Guidance EnCase - AccessData FTK Imager - WinFE	Birmingham
Data associated with the following: - Microsoft Windows - macOS - Linux/Unix	Processing and analysis of data	Documented in-house method EFS-DDFM-2444 using: - Guidance EnCase - AccessData FTK - Magnet AXIOM	Birmingham



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DIGITAL DEVICES AND DATA (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Mobile Phones			
Mobile phone handsets and tablets associated with the following operating systems: - Google Android - Non-smartphone proprietary systems	Physical capture and preservation of data	Documented in-house method EFS-DDFM-1003 using: - MSAB XRY - Cellebrite UFED 4PC - Cellebrite UFED Touch2	Birmingham
Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Google Android - Non-smartphone proprietary systems	Logical capture and preservation of data	Documented in-house method EFS-DDFM-1003 using: - MSAB XRY - Cellebrite UFED 4PC - Cellebrite UFED Touch2	Birmingham
Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Google Android - Non-smartphone proprietary systems	Processing of data	Documented in-house method EFS-DDFM-1003 using: - MSAB XRY - MSAB XAMN - Cellebrite UFED Physical Analyzer	Birmingham
(U)SIM cards	Logical capture and preservation of data	Documented in-house method EFS-DDFM-1002 using: - MSAB XRY - Cellebrite UFED Touch2	Birmingham



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DIGITAL DEVICES AND DATA (cont'd)	<u>Forensic Analysis</u> (cont'd)		
(U)SIM cards	Processing of data	Documented in-house method EFS-DDFM-1002 using: - MSAB XRY - MSAB XAMN - Cellebrite UFED Physical Analyzer	Birmingham
Memory cards associated with mobile phone handsets and tablets	Physical capture and preservation of data	Documented in-house method EFS-DDM-1004 using: - Guidance EnCase	Birmingham
Satellite navigation systems associated with the following manufactures / systems: - Garmin - TomTom	Physical capture and preservation of data	Documented in-house method EFS-DDM-1010 using: - Guidance EnCase - AccessData FTK Imager	Birmingham
DAMAGE	<u>Forensic Analysis</u>		
Damage (Clothing and Fabric)	<u>Related Opinions and Interpretations</u>		
	Examination, assessment and evaluation of a damage item, comparison of damage with suspected instrument (excluding firearms) to determine the likelihood the suspected instrument caused the damage.	Documented In-House Method Method EFS-BM-050 using: - Visual examination - Microscopy	Culham Birchwood Park Tamworth
	Examination, assessment and evaluation of a damage item	Documented In-House Methods using: - Visual examination - Microscopy	Wakefield



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DOCUMENTS	<u>Forensic Analysis</u>		
Handwriting (Roman script)	The examination of submitted items to compare handwriting from known and suspect sources to establish links and/or authorship	Documented in house method EFS-QDM-1096 using: - Visual examination - Low power microscopy	Heathrow
Signatures	The examination of submitted items to compare signatures from known and suspect sources to establish links and/or authorship	Documented in house method EFS-QDM-1096 using: - visual examination - low power microscopy	Heathrow
Paper and other material	Detection and enhancement of indented marks made by handwriting	Documented in house method using EFS-QDM-1096: -Oblique lighting -Low power microscopy -ESDA	Heathrow
Documents	Detection of alterations and decipherment of altered or obliterated entries - Ink examination	Documented in house methods EFS-QDM-1575 using: - lighting techniques, - visual examination - microscopy - VSC	Heathrow
Inks	Comparison of inks	Documented in house method EFS-QDM-1575 using: - VSC - Lighting techniques - visual examination - low power microscopy	Heathrow





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DRUGS (and materials suspected of containing drugs)	<u>Forensic Analysis</u>		
	Legal classification of controlled drugs (Misuse of Drugs Act 1971)		
	Identification of cannabis products	Documented in house method EFS-DM-001 using: - Duquenois Levine Colour test (Negms test) - Microscopy - Thin-layer chromatography (TLC) (Heathrow only)	Tamworth Wakefield Lambeth Heathrow
	Determination of Tetrahydrocannabinol (THC) in Cannabis, cannabis resin and cannabis products	Documented in house method EFS-DM-009 using: - GC-FID	Heathrow
Drugs of Abuse	Screening for the presence of:	Documented In-House method EFS-DM-007 using Spot tests: - Marquis colour test	Tamworth Wakefield Lambeth
	Amphetamine Methylamphetamine Diamorphine Ecstasy types Opiates		
	Cocaine	- Acidified Cobalt Thiocyanate colour test	Tamworth Wakefield
	Ketamine	Modified Cobalt Thiocyanate colour test	Lambeth



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<p>DRUGS (cont'd) (and materials suspected of containing drugs)</p> <p>Drugs of Abuse</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Screening for the presence of</p> <ul style="list-style-type: none"> <li>- Amphetamine</li> <li>- Methylamphetamine</li> <li>- Ring substituted amphetamines</li> <li>- Diamorphine</li> <li>- Cocaine</li> <li>- Methadone</li> </ul> <p>Identification of:</p> <ul style="list-style-type: none"> <li>- Amphetamine</li> <li>- Cocaine</li> <li>- Codeine</li> <li>- Diamorphine</li> <li>- Diazepam</li> <li>- Dihydrocodeine</li> <li>- Ephedrine</li> <li>- Ketamine</li> <li>- Methadone</li> <li>- Methamphetamine</li> <li>- Methylenedioxyamphetamine (MDA)</li> <li>- Methylenedioxymethylamphetamine (MDMA)</li> <li>- Methylenedioxyethylamphetamine (MDEA)</li> <li>- Nitrazepam (not Heathrow)</li> <li>- Temazepam (not Heathrow)</li> </ul>	<p>Documented In-House method EFS-DM-034 using:</p> <ul style="list-style-type: none"> <li>- Thin layer chromatography (TLC)</li> </ul> <p>Documented In-House method EFS-DM-002 using:</p> <ul style="list-style-type: none"> <li>- GC-MS</li> </ul>	<p>Heathrow</p> <p>Tamworth Wakefield Heathrow</p>



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DRUGS (cont'd) (and materials suspected of containing drugs)	<u>Forensic Analysis</u> (cont'd)		
	Identification of: - Amphetamine - Methylamphetamine - Diamorphine - Methylenedioxymethylamphetamine (MDMA) - Cocaine	Documented In-House method EFS-DM-002 using: GC-MS	Lambeth
	Identification of: - Amphetamine - Methylamphetamine - Diamorphine - Ring-substituted amphetamines - Cocaine - Cocaine hydrochloride - Ketamine hydrochloride (Lambeth only)	Documented In-House method EFS-DM-035 using: - FT-IR	Tamworth Wakefield Lambeth Heathrow
	Identification of: - Lysergide	Documented In-House method EFS-DM-034 using: - TLC	Heathrow
	Identification of: - Opium (raw and prepared)	Documented In-House method EFS-DM-809 using: - Visual examination - TLC - GC-MS	Heathrow
	Semi-Quantitative: - Diamorphine - Cocaine	Documented In-House method EFS-DM-1091 using single point calibration: - GC-MS	Lambeth Heathrow
Quantitation of: - Amphetamine - Methylamphetamine - Methylenedioxymethylamphetamine (MDMA) - Cocaine - Diamorphine	Documented In-House method EFS-DM-3210 using: - HP-LC	Heathrow	



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DRUGS (cont'd) (and materials suspected of containing drugs)	<u>Forensic Analysis</u> (cont'd)		
	Recovery and identification of drug traces from drug paraphernalia and packaging	Documented in house method using: - solvent washing - dry recovery with swabs and swabbing	Wakefield
	Identification of additives and diluents commonly associated with drugs - Caffeine - Paracetamol - Glucose - Lactose - Sucrose - Levamisol - Lignocaine - Phenacetin - Benzocaine - Procaine	Documented in house method EFS-DM-035 using: - GC-MS - FTIR	Wakefield
	Identification of characteristically marked proprietary pharmaceuticals, illicit copies and other drugs products	Documented in house method using: - Visual comparison of appearance, markings, dimensions with reference materials, data collections and descriptions in authoritative texts	Wakefield
	Identification of Nitrous Oxide gas	Documented in house method EFS-DM-2268 using - FTIR	Heathrow



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>FIBRES</b>  Man-made fibres, Natural (animal/vegetable) fibres	<u>Forensic Analysis</u>  Recovery of fibres for contingency purposes from clothing and objects	Documented in house method EFS-SM-2804 using: - Visual examination - Low power microscopy - Taping (not Leeds)	Culham Leeds Birchwood Park Tamworth Wakefield
	Search and recovery of fibres from clothing and objects for analysis ( <i>including tapings</i> )	Documented in house method EFS-SM-2804 and EFS-MM-070 using: - Visual examination, - Low power microscopy and screening, - Fibre recovery (taping) - Mounting	Tamworth
	Identification of fibre type	Documented in house method using: - High power microscopy - Polarised light microscopy - FT-IR (Man-made at Tamworth only) (EFS-MM-1212)	Culham Tamworth
	Comparison of fibres	Documented in house method EFS-MM-071 using: - Polarised light microscopy - Comparison microscopy	Culham Tamworth



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FIBRES (cont'd)  Man-made fibres, Natural (animal/vegetable) fibres	<u>Forensic Analysis</u> (cont'd)  Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres  <u>Opinion and Interpretation</u>  The evaluation of the significance of any matching features between the suspect and reference/control fibre to determine the likelihood of the suspect fibre coming from a specific source	Documented in house method using: - Visible microspectrophotometry  Documented in house method EFS-MM-2057	Tamworth  Culham Tamworth
FIREARMS  Ammunition	<u>Forensic Analysis</u>  Examination of discharged ammunition components to determine the number of guns used.  Examination of cartridges to determine if ammunition has been loaded into a firearm	Documented In house methods using: - Comparison microscopy  Documented In house methods using: - Microscopy - Comparison microscopy	Leeds  Leeds
Ammunition	Comparison of spent ammunition to suspect guns  Ammunition and component identification and legal classification	Documented In house methods using: - Comparison microscopy  Documented In house method using: - Weighing - Length measurement - Use of known samples or standard reference data.	Leeds  Leeds



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FIREARMS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968)	Documented In house method using: - Comparison with known samples, reference standards and publications	Leeds
Firearms	Firearm identification from class marks present on ammunition components	In house method using: - Comparison with known samples and use of reference databases.	Leeds
Firearms	Trigger pull measurement	In house method using: - Dead Weights	Leeds
Firearms	Determination of Kinetic Energy of projectiles	Documented In house method using: - Chronograph and balance	Leeds
Firearms	Accidental discharge testing	In house method using: - Impact and drop tests	Leeds
Firearms	Range of fire determination	In house method using: - Test firing with appropriate weapon/ammunition combination and target material to assess range of fire - Comparison of test patterns to exhibits.	Leeds
Firearms	Test Firing to assess the functionality of weapons and/or ammunition.	Documented In house method using: - Suspect or reference guns and ammunition	Leeds
Firearms	Test Firing to generate test samples of ammunition for comparison to exhibits	Documented In house method using: - Suspect or reference guns and ammunition	Leeds



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<b>FIREARMS (cont'd)</b>	<u>Forensic Analysis (cont'd)</u>		
Firearms	Test Firing to generate test samples of ammunition for inclusion in the NABIS database	Documented In house methods meeting the requirements of NABIS	Leeds
Articles suspected of being damaged by firearms	Presumptive Testing for the presence of Lead	Documented In house methods using: - Spot tests (Sodium Rhodizonate Bashinsky transfer method or Sodium Rhodizonate direct application method) for lead	Leeds
Electrical Shock Devices	Identification, classification and function test	Documented In house method using: - Visual examination, function testing and measurement of spark gap	Leeds
<b>FLAMMABLE LIQUIDS (FIRE ACCELERANTS)</b>	<u>Forensic Analysis</u>		
Material Recovered from and associated with Fire Scenes			
Common fire accelerant liquids	Examination and analysis of the following flammable liquids - Petrol - Paraffin - Turpentine substitute - White spirit - Diesel - Alcohols (methanol and ethanol)	Documented in house method EFS-CM-1712, 682 using: - TENAX - ATD-GCMS	Tamworth
Debris and materials recovered from fires and suspected fire scenes	Recovery of potential fire accelerants	Documented in-house method using: - TENAX - ATD-GCMS	Tamworth





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FLAMMABLE LIQUIDS (FIRE ACCELERANTS) (cont'd)	<u>Forensic Analysis</u> (cont'd)		
	Analysis and identification of common fire accelerants: - Petrol - Paraffin - Turpentine substitute - White Spirit - Diesel - Alcohols (methanol and ethanol)	Documented in house method using - TENAX - ATD-GCMS	Tamworth
	Comparison of common fire accelerants	Documented in house method using - ATD-GCMS	Tamworth
	<u>Forensic Analysis</u>		
GLASS	Search and Recovery of glass fragments from clothing and objects	Documented in house methods EFS-CM-325 and EFS-CM-333 using: - Visual examination microscopy - Appropriate recovery	Tamworth
	Physical characterisation of glass	Documented in house method using: - UV Illumination (EFS-CM-400) - Refractive index determination by oil immersion (GRIM), (EFS-CM-334) - Low power and interference microscopy (EFS-CM-336) Re-annealing by tube furnace (EFS-CM-337) - elemental analysis by SEM-EDX (EFS-CM-1597)	Tamworth



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GLASS (cont'd)	<u>Forensic Analysis (cont'd)</u>  Chemical characterisation of glass (Soda Lime Glass)	Documented in house method using - SEM-EDX (Elements: O, Na, Mg, Al, Si, K, Ca, Fe) (EFS-CM-1597)	
	Comparison of recovered glass fragments to control samples recovered from crime scenes  <u>Opinion and Interpretation</u>  The evaluation of the significance of matching and non-matching features between the suspect and reference/control samples	Documented in house method (EFS-CM-668)	Tamworth   Tamworth
nox SHOT RESIDUE (GSR/FDR)	<u>Forensic Analysis</u>		
Any Material Including type of matrix Bore Wipes	Recovery of in-organic gunshot residues (primer)	Documented in house method (EFS-GSRM-634 and EFS-GSRM-642) using: - Carbon coated aluminium stubs	Tamworth
Recovered Material	Identification of in-organic gunshot residues (primer)	Documented in house method using: - SEM/EDX (EFS-GSRM-113, 623, 716, 1133, 2046)	Tamworth
	Opinions and Interpretations  Identification (type) and comparison of recovered GSR particles, including with a suspected source		Tamworth



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LACHRYMATORS	<u>Forensic Analysis</u>  Recovery of lachrymators material  Identification of <ul style="list-style-type: none"> <li>- Capsaicin (Pepper Spray)</li> <li>- Dihydrocapsaicin (Pepper Spray)</li> <li>- PAVA</li> <li>- CS</li> <li>- CN</li> </ul>	Documented in house methods using: <ul style="list-style-type: none"> <li>- Activation</li> <li>- Swabbing</li> <li>- Direct sampling</li> </ul> Documented in house method using: <ul style="list-style-type: none"> <li>- GCMS</li> </ul>	Tamworth   Tamworth   Tamworth
MARKS AND IMPRESSIONS	<u>Forensic Analysis</u>		
Footwear	Enhancement of footwear marks recovered from scenes	Documented in house method using: <ul style="list-style-type: none"> <li>- Gel lifting</li> <li>- Digital capture photography</li> </ul>	Tamworth
Footwear	Production of test marks from suspect footwear	Documented in house method using: <ul style="list-style-type: none"> <li>- Powdering Methods</li> <li>- 3-D test impressions (sand)</li> <li>- Wet media (Black powder soap/swarfega mix)</li> </ul>	Tamworth



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MARKS AND IMPRESSIONS (cont'd)	<u>Forensic Analysis (cont'd)</u>		
Footwear mark (physically or image)	Assessment, Comparison and evaluation of footwear with scene marks	Documented In-House method EFS-CM-406 using: - Visual examination - Low power microscopy	Tamworth
	<u>Opinion and Interpretation</u>		
Footwear	The evaluation of the significance of any matching and non-matching features between the footwear scene impression and reference/control footwear marks	Documented In-House methods EFS-CM-1332 using: - Personal experience - Database	Tamworth
Toolmarks	Enhancement of toolmarks	Documented in house method EFS-CM-346 using: - Casting - Digital capture/photography	Leeds
	Production of Test Marks from suspect items	Documented in house method EFS-CM-346 using: - Casting - Digital capture/photography	Leeds
Toolmarks	Comparison of submitted marks or marks made from suspect items with marks left at scene	Documented In-House methods EFS-CM-346 using: - Visual examination - Low power microscopy - Comparison microscopy - Dimensional measurements - Photography	Leeds
	<u>Opinion and Interpretation</u>		
Toolmarks	The evaluation of the significance of any matching and non-matching features between the tool scene impression and reference/control toolmarks	Documented In-House methods EFS-CM-346 using: - Personal experience	Leeds



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
OILS	<u>Chemical/Physical Tests and Related Opinions and Interpretations</u>	Documented In-House Methods:	
Hydrocarbon oils	Quantification of Coumarin present in Road fuel	Documented in-house method EFS-HCO-3466 using GC-MS	Heathrow
Hydrocarbon oils	Statutory Markers: Quinizarin, CI solvent red 19 CI Solvent red 24 CI Solvent yellow 124 CI Solvent blue 35 CI Solvent orange 2	EFS-HCO-2099 HPLC with diode array detection Preparation of standards and reference standards method	Heathrow
Hydrocarbon oils	Low level Statutory Markers: Quinizarin, CI Solvent red 19 CI Solvent red 24 CI Solvent yellow 124 CI Solvent blue 35 CI Solvent orange 2	EFS-HCO-2100 HPLC with diode array detection Preparation of standards and reference standards method	Heathrow
Hydrocarbon oils	Statutory Marker: Accutrace S10	EFS-HCO-2098 Deans Switch GC-MS	Heathrow
NOXIOUS SUBSTANCES (Acids, Bases and Bleaches)	<u>Forensic Analysis</u>  Qualitative analysis of commonly encountered acids and bases including; Ammonia - Sulphuric acid - Hydrochloric acid - Nitric acid - Oxidising agents	Documented in house method EFS-CM-2970 and EFS-CF-2911 utilising pH	Tamworth



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PAINTS	<u>Forensic Analysis</u>		
	Search and recovery of paint and paint fragments from clothing and objects for analysis	Documented in house method (EFS-CM-325) using: - Visual examination - Low power microscopy	Tamworth
	Comparison of recovered and control samples	Documented in house method using: - FTIR (EFS-MM-1213) - Comparison Microscopy (EFS-CM-341)	Tamworth
	<u>Opinion and Interpretation</u>		
	The evaluation of the significance of any matching and non-matching features between the suspect and reference/control paint samples	Documented in house method EFS-CM-2798	
WORKPLACE DRUG TESTING			
Human urine (Workplace Drug Testing)	Presumptive screening for the presence of the following drug(s) or drug group(s):  Opiates, Oxycodone, Buprenorphine, Benzoyllecgonine, THC metabolites, Methaqualone, Propoxyphene, Amphetamine including Ecstasy groups, Methadone, Barbiturates, Benzodiazepines, Phencyclidine, LSD Ketamine 6-mono-acetylmorphine Tramadol	Documented In-House Method EFS-WDT-2168:  Beckman Coulter A5810 analyser	Heathrow



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<p>WORKPLACE DRUG TESTING (cont'd)</p> <p>Human urine (Workplace Drug Testing)</p>	<p>Confirmation and Quantitation of (Cut-off; Concentration range):</p> <p>THC metabolite (15ng/ml; 5-200ng/ml)</p> <p>Buprenorphine (2ng/ml; 0.5-20ng/ml) Nor-buprenorphine (2ng/ml; 0.5-20ng/ml)</p> <p>Barbiturates; Amobarbital (150ng/ml; 50-1000ng/ml) Phenobarbital (150ng/ml; 50-1000ng/ml) Pentobarbital (150ng/ml; 50-1000ng/ml) Secobarbital (150ng/ml; 50-1000ng/ml)</p>	<p>Documented In-house methods:</p> <p>EFS-WDT-2522 using Solid phase extraction and GC-MS</p> <p>EFS-WDT-2167 using GC-MS and GC-MSMS</p> <p>EFS-WDT-2513 using Solid phase extraction and GC-MS</p>	<p>Heathrow</p> <p>Heathrow</p> <p>Heathrow</p>
<p>Human urine (Workplace Drug Testing)</p>	<p>Confirmation and Quantitation of (Cut-off; ng/ml)[Concentration range; ng/ml]:</p> <p><b>Amphetamines group</b> Amphetamine (300)[50-1000] Methamphetamine(300)[50-1000] MDA(300)[50-1000] MDMA(300)[50-1000] MDEA(300)[50-1000] MBDB(300)[50-1000]</p> <p><b>Benzodiazepines</b> Diazepam(100)[50-1000] Nordiazepam(100)[50-1000] Oxazepam(100)[50-1000] Temazepam(100)[50-1000] Lorazepam(100)[50-1000] Alprazolam(100)[50-1000] Bromazepam(100)[50-1000] Phenazepam(100)[50-1000] Demoxepam(100)[50-1000] Desalkylflurazepam(100)[50-1000] Etizolam(100)[50-1000]</p>	<p>EFS-WDT- 3505 Using LCMSMS</p>	<p>Heathrow</p>



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<p>WORKPLACE DRUG TESTING (cont'd)</p> <p>Human urine (Workplace Drug Testing) (cont'd)</p>	<p>Confirmation and Quantitation of (Cut-off; ng/ml)[Concentration range; ng/ml]: (cont'd)</p> <p><b>Benzodiazepines (cont'd)</b>            Diclazepam(100)[50-1000]            Chlordiazepoxide(100)[50-1000]            Triazolam(100)[50-1000]            Clobazam(100)[50-1000]            Flurazepam(100)[50-1000]            Lormetazepam(100)[50-1000]            Midazolam(100)[50-1000]            Clonazepam(100)[50-1000]            7-aminoclonazepam(100)[50-1000]            Flunitrazepam(100)[50-1000]            7-aminoflunitrazepam(100)[50-1000]            Nitrazepam(100)[50-1000]            7-aminonitrazepam(100)[50-1000]</p> <p><b>Cathinones:</b>            Mephedrone(300)[50-1000]</p> <p><b>Cocaine group:</b>            Cocaine(100)[50-1000]            Benzoylcegonine(100)[50-1000]            Cocaethylene(100)[50-1000]</p> <p><b>Cannabis:</b>            THC-COOH(15)[5-500]</p> <p><b>Ephedrines:</b>            Ephedrine(300)[50-1000]            Pseudoephedrine(300)[50-1000]            Norephedrine(300)[50-1000]            Norpseudoephedrine (Cathine)(300)[50-1000]</p> <p><b>Gabapentenoids:</b>            Gabapentin(300)[50-1000]            Pregabalin(300)[50-1000]</p> <p><b>Ketamine</b>            Ketamine(50)[5-500]            Norketamine(50)[5-500]</p>	<p>EFS-WDT- 3505 Using LCMSMS</p>	<p>Heathrow</p>





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<p>WORKPLACE DRUG TESTING (cont'd)</p> <p>Human urine (Workplace Drug Testing) (cont'd)</p>	<p>Confirmation and Quantitation of (Cut-off; ng/ml)[Concentration range; ng/ml]: (cont'd)</p> <p><b>Opiates &amp; Opioids:</b> 6-Monoacetylmorphine(10)[5-500] Morphine(300)[50-1000] Codeine(300)[50-1000] Dihydrocodeine(300)[50-1000] Hydrocodone(300)[50-1000] Hydromorphone(300) (confirmation only) Oxymorphone(300)[50-1000] Oxycodone(300)[50-1000] Norcodeine(300)[50-1000] 6-Acetyl Codeine(300)[50-1000] Noscapine(300)[50-1000] Tramadol(300)[50-1000] Fentanyl(100)[50-1000] Thebaine(300)[50-1000] Methadone(300)[50-1000] EDDP(75)[50-1000] Tilidine(2)[0.5-10] Naloxone(10)[5-500] Buprenorphine (2) (Confirmation only)</p> <p><b>Z-Drugs</b> Zaleplon(100)[50-1000] Zolpidem(100)[50-1000] Zopiclone(100)[50-1000]</p> <p>Propoxyphene(300)[50-1000] Norpropoxyphene(300)[50-1000]</p> <p>LSD(1)[0.5-10] Phencyclidine (PCP)(25)[5-500]</p>	<p>EFS-WDT- 3505 Using LCMSMS</p>	<p>Heathrow</p>
<p>Oral fluid collected using the Quantisal or Oral-Eze device (Workplace Drug testing)</p>	<p>Screening of: Amphetamines: Methamphetamines Benzodiazepines Cannabis Cocaine metabolites Methadone Opiates</p>	<p>EFS-WDT-2168 using Solid Phase Extraction and GC-MS-MS using Beckman Coulter A5810 analyser</p>	<p>Heathrow</p>



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**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p><b>WORKPLACE DRUG TESTING (cont'd)</b></p> <p>Oral fluid collected using the Quantisal or Oral-Eze device (Workplace Drug testing)</p>	<p>Confirmation and quantitation of:</p> <p>Amphetamines: Amphetamine Methamphetamine 3,4-methylenedioxyamphetamine (MDA) Methylenedioxymethamphetamine (MDMA) Methyldiethanolamine (MDEA) N-methyl-1,3 Benzodioxolylbutanamine (MBDB)</p>	<p>EFS-WDT-2523 using Solid Phase Extraction followed by GC-MS-MS</p>	<p>Heathrow</p>
<p>Neat oral fluid and oral fluid collected using the Quantisal or Oral-Eze device</p>	<p>Confirmation and quantitation of:</p> <p>Cannabis: Delta-9-tetrahydrocannabinol (THC) Benzodiazepines: Lorazepam Nordiazepam Oxazepam Temazepam Cocaine Benzoyllecgonine Opiates: Morphine Codeine Dihydrocodeine 6-mono-acetylmorphine Methadone (Oral-Eze only)</p>	<p>EFS-WDT-2166 using Solid Phase Extraction followed by GC-MS-MS</p>	<p>Heathrow</p>
<p><b>BOVINE, CAPRINE, OVINE TESTING</b></p> <p>Bovine, Ovine and Caprine brainstem</p>	<p>Detection of abnormal prion protein PrP<sup>res</sup></p>	<p>EU Approved method by immunoassay using the Biorad test kit with purification using the semi-automated NSP system and TeSeE purification kit following the short assay protocol</p>	<p>Birchwood Park</p>
<p><b>END</b></p>			