

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>2045</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Orchid Cellmark Ltd (trading as Cellmark)</p> <p>Issue No: 119 Issue date: 16 June 2026</p>	
	<p>Unit 16 Blacklands Way Abingdon Business Park Abingdon Oxfordshire OX14 1DY</p>	<p>Contact: Kim Holt Tel: +44 (0)1235 528609 Fax: +44 (0)1235 554428 E-Mail: Kim.Holt@forensicsuk.eurofins.com Website: www.cellmarkforensics.co.uk / www.cellmark.co.uk</p>

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Unit 16 Blacklands Way Abingdon Business Park Abingdon Oxfordshire OX14 1DY</p> <p>Local contact Kim Holt Tel: +44 (0)1235 528609 Fax: +44 (0)1235 554428 E-Mail: Kim.Holt@forensicsuk.eurofins.com Websites: www.cellmarkforensics.co.uk www.cellmark.co.uk</p>	<p>Forensic Testing; Paternity and Relationship testing; Forensic and Veterinary and Forensic Analysis</p>	A
<p>Address Unit 1 Buckshaw Link Ordnance Road Buckshaw Village Chorley Lancashire PR7 7EL</p> <p>Local contact Kim Holt Tel: +44(0)1235 528609 Fax: +44(0)1235 554428 E-Mail: Kim.Holt@forensicsuk.eurofins.com Websites: www.cellmarkforensics.co.uk www.cellmark.co.uk</p>	<p>Forensic Analysis</p>	B



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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
BODY FLUIDS and TISSUES	<u>Forensic Testing</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 in relation to the Forensic Activities listed below. In addition, where compliance has been demonstrated for the related FSA specific requirements this is stated below at the relevant schedule entry.	A, B
	<u>Forensic Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> • Human DNA examination and analysis 	
Blood <ul style="list-style-type: none"> - Whole - Stains - FTA cards Semen <ul style="list-style-type: none"> - Whole - Azoospermic Faeces Saliva <ul style="list-style-type: none"> - Whole - Stains - FTA Cards - Swabs (buccal cells) Hair Cellular Material	DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of: <ul style="list-style-type: none"> - Low Template DNA (SGM Plus and NGM SElect)) - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Subject Samples (PACE and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Elimination Database samples (VED/SED and PED) - Environmental Monitoring Samples (NGM SElect only) 	Documented In-House Methods using manual/automated extraction <ul style="list-style-type: none"> - Qiagen (EZ1) (FSP0050) Modified organic (FSP0038) - Qiagen (EZ2) (FSP0151) - Alkali Lysis extraction (FSP0033) - Fast differential semen DNA extraction (FSP0087) - Direct semen extraction (FSP0102) - QIAamp Fast Stool DNA Minikit (FSP0073) - DNA IQ (STR0119) Documented In-House Methods using manual and automated quantification <ul style="list-style-type: none"> - Pico Green - Oli Green (QC0005/STR0161) Real Time Quantification using Quantiplex ProDual RT-PCR (FOR0017) 	A



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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 cont</u>	<p>The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements:</p> <ul style="list-style-type: none"> • Human DNA examination and analysis <p>Documented In-House Methods (FSP0156/STR0159/STR0160/STR0161/FSP0124 using manual amplification (PCR) and the following chemistry:</p> <ul style="list-style-type: none"> - NGM SElect - NGM SElect Express - GlobalFiler <p>Documented In-House Methods (FSP0170/STR0217) using Electrophoresis</p> <ul style="list-style-type: none"> - Applied Biosystems 3500xl Genetic Analyser© 	A



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BODY FLUIDS and TISSUES (cont'd)	<p><u>Forensic Analysis</u> (cont'd)</p> <p><u>Related Opinions and Interpretation</u></p> <p>Interpretation of DNA profiles generated internally from crime stains (single source/major-minor mixtures/complex mixtures) and reference samples</p> <p>Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)</p>	<p>The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements:</p> <ul style="list-style-type: none"> • Human DNA examination and analysis <p>Documented In-House methods (FRP0166, FRP0114, FRP0117 FRP0139 FRP0151 FRP0162, FRP0124/ TG0025/FSP0021/ FRP0152, FOR0123, FOR0126, FOR0160 FOR0161)</p> <ul style="list-style-type: none"> - Genetic Characterisation <ul style="list-style-type: none"> o GMID 3.2.1 o GeneMapper IDX v1.5 o Expert systems: <ul style="list-style-type: none"> ▪ DNA Resolve ▪ ReliCalc ▪ STRMix (v2.5 &v2.10.0) ▪ DBLR ▪ YHRD 	<p>A</p> <p>A, B,</p> <p>A, B</p> <p>A, B</p> <p>A, B</p> <p>A, B</p>



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Blood - FTA cards</p> <p>Saliva - FTA Cards</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p><u>Forensic Testing</u></p> <p>DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of:</p> <p>Subject Samples for input into population databases.</p>	<p>The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements:</p> <ul style="list-style-type: none"> Human DNA examination and analysis <p>Documented In-House Methods (STR0202) & manufacturer specifications using FTA purification (STR0187) and amplification (PCR) using the following chemistry:</p> <ul style="list-style-type: none"> PowerPlex® Fusion 6C <p>Documented In-House Methods (STR0218) using Electrophoresis:</p> <ul style="list-style-type: none"> Applied Biosystems 3500xl Genetic Analyser© <p>Genetic characterisation using documented in-house methods (STR0219):</p> <ul style="list-style-type: none"> GeneMapper IDX v1.4 	A



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis 	A
Blood <ul style="list-style-type: none"> Whole Stains FTA cards Semen <ul style="list-style-type: none"> Whole Azoospermic Saliva <ul style="list-style-type: none"> Whole Stains FTA Cards Swabs (buccal cells) Hair	<u>Forensic Testing</u> (cont'd)		
Cellular Material	Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR)/Y-STR/X-STR/Identity SNP/Phenotypic SNP/Biogeographical ancestry SNP DNA profiling for forensic analysis of: <ul style="list-style-type: none"> Crime Scene/ Missing persons Samples Subject Samples (PACE and Volunteer) 	Documented In-house Methods for Massive Parallel Sequencing Sample Amplification, Enrichment, Library Preparation, Purification and Normalisation using -Verogen ForenSeq™ DNA -Signature Prep Kit VER0001	
Body Tissue <ul style="list-style-type: none"> Nail Muscle Bone Teeth Products of conception 	<u>Related Opinions and Interpretation</u> Interpretation of DNA profiles generated internally from crime stains (single source/major-minor mixtures/complex mixtures) and reference samples Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)	Documented In-house Methods for Massive Parallel Sequencing of pooled libraries using <ul style="list-style-type: none"> Illumina MiSeq FGx & MiSeq FGx Control Software (MCS)VER0002 Documented In-House Methods <ul style="list-style-type: none"> Genetic Characterisation Verogen Forenseq™ Universal Analysis Software (Windows) VER0003/VER0004/VER0005/FOR0024/FOR0100/FOR0101 	



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Blood</p> <ul style="list-style-type: none"> - Whole - Stains - FTA cards <p>Semen</p> <ul style="list-style-type: none"> - Whole - Azoospermic <p>Saliva</p> <ul style="list-style-type: none"> - Whole - Stains - FTA Cards - Swabs (buccal cells) <p>Faeces</p> <p>Urine</p> <p>Stomach Contents</p> <p>Hair</p> <p>Cellular Material</p> <p>Body Tissue</p> <ul style="list-style-type: none"> - Nail - Muscle - Bone - Teeth - Amniotic Fluid - Products of conception 	<p><u>Forensic Analysis</u> (cont'd)</p> <p>DNA Profiling: Short Tandem Repeat (STR)/Mitochondrial/Y Chromosome DNA profiling for forensic analysis of:</p> <ul style="list-style-type: none"> - Low Template DNA (elevated cycle number and post PCR enhancement) - Crime Scene Samples 	<p>The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements:</p> <ul style="list-style-type: none"> • Human DNA examination and analysis <p>Documented In-House Methods using manual/automated extraction</p> <ul style="list-style-type: none"> - Modified organic (FSP0038) - Qiagen EZ1 (FSP0050) <p>Documented In-House Methods using Manual quantification</p> <ul style="list-style-type: none"> - Real Time Quantification using Quantiplex ProRT-PCR (FOR0017) Mini-gel <p>Documented In-House Methods using Manual amplification (PCR) and the following chemistry:</p> <ul style="list-style-type: none"> - NGM Select (FSP0156) - Identifiler (FSP0156) - mtDNA (MIT0004) - Minifiler (FSP0156) - Powerplex Y23 (FSP0149) <p>Documented In-House Methods (FSP0028/FSP0170, FSP017, FSP0053, FOR0109/FOR0110) using Electrophoresis</p> <ul style="list-style-type: none"> - Applied Biosystems 3130xl Genetic Analyser© - Applied Biosystems 3500xl Genetic Analyser© for crime scene samples following NGM SElect and PPY23 amplification 	<p>A</p>



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<p>BODY FLUIDS and TISSUES (cont'd)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p><u>Related Opinions and Interpretation</u></p> <p>Interpretation of DNA profiles generated internally from crime stains (single source/major-minor mixtures) and reference samples</p> <p>Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)</p>	<p>The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements:</p> <ul style="list-style-type: none"> • Human DNA examination and analysis <p>Documented In-House methods (FRP0153, FSP0172, FSP0174 FRP0123, MIT0006, MIT0009, MIT0011, FSP0080//FRP0135)</p> <p>Genetic Characterisation</p> <ul style="list-style-type: none"> - GMID 3.2.1 - GeneMapper IDX v 1.4 and 1.5 - Expert systems: - Sequencher - DBLR 	<p>A, B A, B A, B A, B</p>



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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>Relationship Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis 	
Blood <ul style="list-style-type: none"> Whole Serum Stains Semen <ul style="list-style-type: none"> Whole Azoospermic Saliva <ul style="list-style-type: none"> Whole Swabs (buccal cells) Faeces	Short Tandem Repeat (STR)/Mitochondrial/Y Chromosome DNA profiling for relationship testing for: <ul style="list-style-type: none"> -Paternity -Maternity -Sibling -Familial Searching -Extended relationship (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin) 	Documented In-House Methods using Manual/Automated extraction <ul style="list-style-type: none"> FTA Purification (STR0187) Documented In-House Methods (FSP0054) using Manual quantification <ul style="list-style-type: none"> Qiagen manual QIAamp (STR0043) Real Time Quantification using Quantiplex PRORT-PCR (FOR0017) Documented In-House Methods using Manual amplification and the following chemistry: <ul style="list-style-type: none"> NGM Select (STR0161) Powerplex Fusion (STR0187) Powerplex Y23 (FSP0149) Documented In-House Methods using Electrophoresis (FSP0170/STR 0218) <ul style="list-style-type: none"> Applied Biosystems 3500 Genetic Analyser© 	A
	<u>Related Opinions and Interpretation</u>		
	Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases	Documented In-House methods (STR0084/STR0099/STR0219/STR0208/STR0220/FSP0174) <ul style="list-style-type: none"> Genetic Characterisation <ul style="list-style-type: none"> GMID 3.2 GeneMapper IDX v1.4 and 1.5 	A



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis 	A
Blood <ul style="list-style-type: none"> Whole Serum Stains Semen <ul style="list-style-type: none"> Whole Azoospermic Saliva <ul style="list-style-type: none"> Whole Swabs (buccal cells) Faeces Hair Body Tissue <ul style="list-style-type: none"> Nail Muscle Bone Teeth Amniotic Fluid Products of conception	Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR)/Y-STR/X-STR/Identity SNP/Phenotypic SNP/Biogeographical ancestry SNP DNA profiling for relationship testing for: <ul style="list-style-type: none"> -Paternity -Maternity -Sibling -Familial Searching -Extended relationship (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin) 	Documented In-house Methods for Massive Parallel Sequencing Sample Amplification, Enrichment, Library Preparation, Purification and Normalisation using <ul style="list-style-type: none"> -Verogen ForenSeq™ DNA -Signature Prep Kit VER0001 Documented In-house Methods for Massive Parallel Sequencing of pooled libraries using <ul style="list-style-type: none"> -Illumina MiSeq FGx & MiSeq FGx Control Software VER0002 	
	<u>Related Opinions and Interpretation</u>	Documented In-house Methods for Massive Parallel Sequencing of pooled libraries using <ul style="list-style-type: none"> Illumina MiSeq FGx & MiSeq FGx Control Software (MCS)VER0002 In-House Methods <ul style="list-style-type: none"> Genetic Characterisation Verogen Forenseq™ Universal Analysis Software (Windows VER0003/VER0004/VER0005/ STR0234 	



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis 	
ANY MATERIAL	Searching for: <ul style="list-style-type: none"> Blood Semen Saliva Urine Hairs 	Documented In-House Methods (FSP0027/ FOR0010, FSL0071, FSL0005, FOR0015, FSL0070, FSL0010) using: <ul style="list-style-type: none"> visual examination white light low power microscopy high power microscopy chemical testing (see below) 	A, B, A, B, A, B, A, B, A, B,
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials and swabs: <ul style="list-style-type: none"> Blood Semen Saliva Hairs Cellular Material 	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis Documented In-House Methods (FOR0034, FOR0010, FOR0037, FSL0014, FOR0003, FSL0040, FSL0083, FOR0001, FSL0010) using: <ul style="list-style-type: none"> cutting swabs and swabbing taping mini-taping extraction of stained materials extraction of swabs 	A, B A, B A, B A, B A, B A, B



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis 	
Blood	Presumptive testing for blood via detection of: <ul style="list-style-type: none"> Peroxidase Human Haemoglobin 	Documented In-House Methods (FOR0009) using: <ul style="list-style-type: none"> KM (Kastle Meyer) Luminol Hydrogen Peroxide OBTI 	A, B A, B A, B A, B
	<u>Related Opinions and Interpretations</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Bloodstain pattern analysis 	
	Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented In-House Methods (FSL0044/TG0010) using: <ul style="list-style-type: none"> visual examination low power microscopy 	A, B



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: <ul style="list-style-type: none"> Human DNA examination and analysis 	
Semen	Presumptive testing for seminal fluid, via detection of: <ul style="list-style-type: none"> Acid Phosphatase Choline 	Documented In-House Methods (FSL0005, FSL0007) using: <ul style="list-style-type: none"> Acid phosphatase reagent Choline detection by Florence Iodine test 	A, B
	Confirmatory testing for seminal fluid via identification of spermatozoa	Documented In-House Methods (FOR0148) using: <ul style="list-style-type: none"> High power microscopy Christmas Tree staining Haematoxylin and Eosin staining 	A, B
Saliva	Presumptive testing for saliva via detection of: <ul style="list-style-type: none"> Amylase 	Documented In-House Methods (FOR0015 and FOR0001) using: <ul style="list-style-type: none"> Phadebas paper Amylase paper Phadebas tube test 	A, B
Urine	Presumptive testing for urine via detection of: <ul style="list-style-type: none"> Urea 	Documented In-House Methods (FSL0060) using: <ul style="list-style-type: none"> DMAC 	A, B
Hairs	Differentiation of human and animal hairs	Documented In-House Methods (FSL0068) using: <ul style="list-style-type: none"> visual examination low power microscopy high power microscopy 	A, B



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic and Veterinary</u>		
FTA Cards	Analysis of Canine Short Tandem Repeat (STR) loci	Documented In-House Methods (DOGID0002/DOGID0003/DOGID0004) defining extraction, amplification, electrophoresis and profile designation of Canine samples Thermo Scientific™ Canine Genotypes Panel 2.1 kit by ABI 3500xL Genetic Analyser and GeneMapper ID-X v1.4	A
Blood Body Tissue DNA FTA Cards	Analysis of Bovine Short Tandem Repeat (STR) loci	Documented In-House Methods (BOVSTR0001 BOVSTR0011/BOVSTR0013/BOVSTR0014 and BOVSTR0014) defining extraction, amplification, electrophoresis and profile designation of Bovine samples using Bovine Genotypes™ Panel 1.2 kit by ABI 3500xL Genetic Analyser and GeneMapper ID-X v1.4	A
Forensic samples and meat products	<u>Related Opinions and Interpretations</u> Identification of animal species by sequencing of the 12S rRNA mitochondrial gene from DNA extracts	Documented In-House Methods (SID0004) defining extraction, amplification, sequencing and analysis and comparison with reference sequences and analysis (SID0001-05). In house methods for relationship analysis (BOVSTR0006/BOVSTR0007)	A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements:	
Whole Blood (Preserved)	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 (Amended) (Cut-Off Limit):	<ul style="list-style-type: none"> Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988 	A
	Delta-9-tetrahydrocannabinol (THC) (2 µg/L)	Documented in house (TOX0024) using: <ul style="list-style-type: none"> Solid phase extraction GC-MS-MS 	A
Blood / Urine (Preserved, Unpreserved)	Detection and quantitation of alcohol in relation to Section 5 of the Road Traffic Act 1988 (as amended) and other sample types over the concentration range 10 to 500 mg/100mL for legal limits of 20mg/100 ml (aviation) and 80 mg/100mL (Section 5) in blood 27 mg/100ml (aviation and) 107mg/100ml in urine	Documented in house (TOX0029) using: HS-GC-FID	A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988	
Whole Blood (Preserved)	The Confirmation 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 (Cut-off); [Concentration Range]: Amphetamine (250 µg/L); [100-1500 µg/L] Benzoyllecgonine (50 µg/L); [20-300 µg/L] Clonazepam (50 µg/L); [20-300 µg/L] Cocaine (10 µg/L); [4-60 µg/L] Diazepam (550 µg/L); [100-1500 µg/L] Flunitrazepam (300 µg/L); [100-1500 µg/L] Ketamine (20 µg/L); [8-120 µg/L] Lorazepam (100 µg/L); [40-600 µg/L] Lysergic Acid Diethylamide – LSD (1µg/L); [0.4-6.0 µg/L] Methadone (500 µg/L); [100-1500 µg/L] Methylamphetamine (10 µg/L); [4.0-60 µg/L] Methylenedioxymethamphetamine – MDMA (10 µg/L); [4.0-60 µg/L] 6-Monoacetylmorphine (5 µg/L); [2-30 µg/L] Morphine (80 µg/L); [30-450 µg/L] Oxazepam (300 µg/L); [100-1500 µg/L] Temazepam (1000 µg/L); [100-1500 µg/L]	Documented in house method TOX0051 by Protein precipitation and liquid chromatography with triple quadrupole mass spectrometry (LC-QQQ)	A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of drugs (cut-off limit):	Documented in house (TOX0026) using:	A
	Cathinone Group: 4-methylethcathinone - 4-MEC (10 µg/L) Mephedrone - 4-Methylmethcathinone (10 µg/L)	- Protein Precipitation - LC-MS/MS	A
	Cocaine Group: Benzoylecgonine (10 µg/L) Cocaethylene (10 µg/L) Cocaine (1µg/L) Ecgonine methyl ester - EME (10 µg/L) Norcocaine (10 µg/L)		A
	Opioid Group: 2-ethylidene-1,5-dimethyl-3, 3-diphenylpyrrolidine - EDDP (5 µg/L) 6-Acetylcodeine (1 µg/L) 6-Monoacetylmorphine - 6-MAM (1 µg/L) Buprenorphine (1 µg/L) Codeine (10 µg/L) Dihydrocodeine (10 µg/L) Methadone (15 µg/L) Morphine (10 µg/L)		A
	Piperazine Group: 3-Trifluoromethylphenylpiperazine - TFMPP (10 µg/L) Benzylpiperazine - BZP (5µg/L) meta-Chlorophenylpiperazine - m-CPP (5 µg/L)		A
	Miscellaneous Group: Ketamine (10 µg/L) Lysergic Acid Diethylamide - LSD (0.5 µg/L)		A



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BODY FLUIDS and TISSUES – TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))	Quantitative analysis of the following drugs (concentration range): Cannabis Group: 11-Hydroxy- Δ^9 -THC - THC-OH (5-250 $\mu\text{g/L}$) Cannabidiol (0.5-25 $\mu\text{g/L}$) Cannabinol (0.5-25 $\mu\text{g/L}$) Delta-9-Tetrahydrocannabinol - THC (0.5-25 $\mu\text{g/L}$) Trans-11-Nor-9-carboxy- Δ^9 -THC - THC-COOH (5-250 $\mu\text{g/L}$)	Documented in house (TOX0024) using: - Solid phase extraction - Gas chromatography tandem mass spectrometry (GC-MS/MS)	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine): Amphetamines group: Amphetamine (3 $\mu\text{g/L}$; 15 $\mu\text{g/L}$) Butylone (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Methamphetamine (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Methylenedioxyamphetamine (MDA) (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Methylenedioxymethamphetamine (MDMA) (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Methylenedioxypropylone (MDPV) (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Methylone (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Naphyrone (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) PMA (para-Methoxyamphetamine) (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) PMMA (para-Methoxymethamphetamine) (1 $\mu\text{g/L}$; 5 $\mu\text{g/L}$) Methylphenidate (0.1 $\mu\text{g/L}$; 0.5 $\mu\text{g/L}$)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0040) using: - Protein Precipitation - SPE - LC-MS/MS	A
	Erectile Dysfunction Group: Tadalafil (1 µg/L; 5 µg/L) Vardenafil (0.1 µg/L; 0.5 µg/L) Sildenafil (0.5 µg/L; 0.5 µg/L)		A
	Beta-Blocker Group: Propranolol (1 µg/L; 5 µg/L) Atenolol (15 µg/L; 75 µg/L) Metoprolol (1 µg/L; 5 µg/L)		A A
	Miscellaneous Group: Ketamine (1 µg/L; 5 µg/L) Lysergic Acid Diethylamide - LSD (0.1; 0.5 µg/L) Norketamine (1 µg/L; 5 µg/L) Procyclidine (1 µg/L; 5 µg/L)		A
	Analgesic and Anti-inflammatory group: Tramadol (1 µg/L; 5 µg/L) Fentanyl (0.1 µg/L; 0.5 µg/L) Oxycodone (1 µg/L; 5 µg/L) Dextropropoxyphene (1 µg/L; 5 µg/L) Gabapentin (15 µg/L; 75 µg/L) Pregabalin (15 µg/L; 75 µg/L)		A
	Anti-convulsant Group: Carbamazepine (15 µg/L; 75 µg/L) Lamotrigine (15 µg/L; 75 µg/L)		A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range):	Documented in house (TOX0040) using:	A
	Analgesic and Anti-inflammatory Group: Dextropropoxyphene (5-1000 µg/L) Fentanyl (0.5-100 µg/L) Gabapentin (150-15000 µg/L) Oxycodone (5-1000 µg/L) Pregabalin (75-15000 µg/L) Tramadol (5-1000 µg/L)	- Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Anticonvulsant Group: Carbamazepine (225-7500 µg/L) Lamotrigine (75-7500 µg/L)		A
	Antidepressant group: Amitriptyline (5-1000 µg/L) Citalopram (5-1000 µg/L) Dothiepin/Dosulepin (10-1000 µg/L) Duloxetine (5-1000 µg/L) Fluoxetine (10-1000 µg/L) Mirtazapine (5-500 µg/L) Nortriptyline (5-1000 µg/L) Paroxetine (10-1000 µg/L) Sertraline (5-1000 µg/L) Trazodone (75-15000 µg/L) Venlafaxine (5-1000 µg/L)		A
	Antihistamine Group: Chlorphenamine (0.5-100 µg/L) Cyclizine (5-1000 µg/L) Diphenhydramine (5-1000 µg/L) Hydroxyzine (5-1000 µg/L) Promethazine (0.5-100 µg/L)		A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range): (cont'd)	Documented in house (TOX0040) using:	A
	Antipsychotic Group: Chlorpromazine (10-500 µg/L) Clozapine (5-1000 µg/L) Haloperidol (0.5-100 µg/L) Olanzapine (10-500 µg/L) Quetiapine (5-1000 µg/L) Risperidone (0.5-100 µg/L)	- Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Benzodiazepine Group: 7-Aminoclonazepam (5-1000 µg/L) 7-Aminoflunitrazepam (5-1000 µg/L) 7-Aminonitrazepam (5-1000 µg/L) Alprazolam (5-1000 µg/L) Clonazepam (5-500 µg/L) Chlordiazepoxide (15-1500 µg/L) Desmethyldiazepam (10-1000 µg/L) Diazepam (15-1500 µg/L) Flunitrazepam (5-1000 µg/L) Lorazepam (10-1000 µg/L) Midazolam (1-50 µg/L) Nitrazepam (10-1000 µg/L) Oxazepam (15-1500 µg/L) Phenazepam (5-1000 µg/L) Temazepam (15-3000 µg/L) Triazolam (1-100 µg/L)		A
	Beta-Blocker Group: Atenolol (75-15000 µg/L) Metoprolol (5-1000 µg/L) Propranolol (5-1000 µg/L)		A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range): (cont'd)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Cathinone Group: Cathinone (5-1000 µg/L) Mephedrone (5-1000 µg/L) Methylethcathinone - 4-MEC (5-1000 µg/L)		A
	Cocaine Group: Benzoylecgonine (15-3000 µg/L) Cocaethylene (5-1000 µg/L) Cocaine (5-1000 µg/L) Ecgonine methyl ester - EME (5-1000 µg/L) Norcocaine (5-1000 µg/L)		A
	Erectile Dysfunction Group: Sildenafil (1-50 µg/L) Vardenafil (1-50 µg/L)		A
	Miscellaneous Group: Ketamine (5-1000 µg/L) Lysergic Acid Diethylamide - LSD (0.5-100 µg/L) Procyclidine (5-1000 µg/L)		A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range): (cont'd)	Documented in house (TOX0040) using:	A
	Opioid Group: 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine - EDDP (5-1000 µg/L) 6-Acetylcodeine (0.5-50 µg/L) 6-Monoacetylmorphine (6-MAM) (1-50 µg/L) Buprenorphine (1-50 µg/L) Codeine (5-1000 µg/L) Dihydrocodeine (5-1000 µg/L) Methadone (15-1500 µg/L) Morphine (5-1000 µg/L) Pethidine (5-1000 µg/L)	- Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Piperazine Group: 3-Trifluoromethylphenylpiperazine - TFMPP (5-1000 µg/L) Benzylpiperazine - BZP (5-1000 µg/L) meta-Chlorophenylpiperazine - m-CPP (5-1000 µg/L)		A
	Z Drugs Group: Zaleplon (1-100 µg/L) Zolpidem (5-1000 µg/L) Zopiclone (5-1000 µg/L)		A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
	Analgesic and Anti-inflammatory group: Salicylic acid (5mg/L; 5mg/L) Ibuprofen (5 mg/L; 5 mg/L) Paracetamol (5 mg/L; 5mg/L)		A
	Anti-convulsant Group Valproic Acid (5 mg/L; 5 mg/L) Phenytoin (1 mg/L; 1 mg/L) Primidone (1 mg/L; 0.5mg/L)		A
	Barbiturates Group: Phenobarbital (1 mg/L; 1 mg/L) Amobarbital (1 mg/L; 1 mg/L) Pentobarbital (1 mg/L; 1 mg/L) Secobarbital (1 mg/L; 1 mg/L)		A
	Anti-narcoleptic/Drugs of Abuse: GHB (gamma-hydroxybutyrate) (4.1mg/L;4.1mg/L)		
	Miscellaneous: BHB (Beta-hydroxybutyrate) (5 mg/L; 5 mg/L)		



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range; *urine range if different to blood):	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
	Analgesic and Anti-inflammatory Group: Paracetamol (5-300 mg/L) Salicylic acid (5-300 mg/L)		A
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range; *urine range if different to blood):	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
	Anticonvulsant Group Phenytoin (1-60 mg/L) Valproic Acid (10-300 mg/L); (*80-300 mg/L)		
	Barbiturates Group: Amobarbital (1-60 mg/L) Pentobarbital (1-60 mg/L) Phenobarbital (1-60 mg/L) Secobarbital (1-60 mg/L)		A
	Anti-narcoleptic/Drugs of Abuse Group: Gamma-hydroxybutyrate - GHB (8.3-247.8 mg/L)		A
	Miscellaneous Group: Beta-hydroxybutyrate - BHB (10-300 mg/L) (*5-300 mg/L)		A



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BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Urine (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range) Ibuprofen (5-300 mg/L) Primidone (1-60 mg/L)	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
NOXIOUS SUBSTANCES	<u>Forensic Analysis</u> (cont'd)		
(Acids, Bases and Bleaches)	Qualitative Identification of - Acid - Bases - Bleaches	Documented in house method (COR0001) using -Volumetric analysis using chemical indicators, spot plates and a pH meter.	A, B
DAMAGE	<u>Forensic Analysis</u>		
Damage (Clothing and Fabric material)	<u>Related Opinions and Interpretations</u> Examination, assessment and evaluation of a damage item, comparison of damage with suspected instrument to determine the likelihood the suspected instrument caused the damage.	Documented In-House Methods (FSL0003) using: - visual examination - microscopy - dimensional measurement - Physical fit (FSL0075/FSL0039)	A, B
FIBRES	Recovery of fibres for contingency purposes from clothing and objects	Documented in house method (FSL0010/FSL0055) using - visual examination - low power microscopy - taping - forceps	A, B



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FIBRES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
	Search and recovery of fibres from clothing and objects for analysis (including tapings)	Documented in house method (FSL0010/FSL0055) using <ul style="list-style-type: none"> - visual examination, - low power microscopy and screening - fibre recovery (taping) - mounting 	B
	Identification of fibre type	Documented in house method (FRP0085/ FSL0087/FSL0089) using <ul style="list-style-type: none"> - polarised light microscopy 	B
	Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres	Documented in house method (FSL0112) using <ul style="list-style-type: none"> - visible microspectrophotometry - ultraviolet-visible microspectrophotometry 	B
	Comparison of fibres	Documented in house method (FRP0085/ FSL0087/FSL0089) using <ul style="list-style-type: none"> - stereo microscopy - polarised light microscopy - comparison microscopy 	B
	<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		B



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GLASS	<u>Forensic Analysis</u> (cont'd)		
	Search and recovery of glass fragments from clothing and objects	Documented In-House Methods (FOR0015 / FOR0134) using visual examination and low power microscopy	A, B
	Preparation of glass fragments for SEM Analysis	Documented In-House Method (FSL0066) involving stub preparation.	A, B
	Characterisation of glass fragments	Documented In-House methods (FSL0035/FSL0036/FSL0037) using - -refractive index determination by oil immersion (GRIM 3) - -low power and interference microscopy - re-annealing by tube furnace	A, B
			A, B
<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 using: - Database (FCD001)	A, B	



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MARKS AND IMPRESSIONS Footwear Footwear mark (physically or image) Toolmarks	<u>Forensic Analysis</u> Enhancement of footwear marks recovered from scenes Production of test marks from suspect footwear Assessment, comparison and evaluation of footwear with scene marks <u>Opinion and Interpretation</u> 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 method (FSL0026/FSL0090) using <ul style="list-style-type: none"> - lighting techniques - ESLA - gel lifting - digital capture photography - digital scanner 	A, B
	Documented in house method (FSL0025/ FSL0090) using <ul style="list-style-type: none"> - casting (dental stone/bio foam) - powders (Bristol black/aluminium/light mineral oil/magnetic powder) - digital capture photography 	A, B	
	Documented In-House methods (FSL0025) using visual examination, low power microscopy and dimensional measurements	A, B	
	Documented In-House methods (FSL0025) using <ul style="list-style-type: none"> - Personal experience - Database (FCD0005) - NFRC system for coding of marks (FCD0003) 	A, B	
	Documented in house method (FSL0057) using <ul style="list-style-type: none"> - lighting technique - casting - digital capture/photography 	B	
	Documented in house method (FSL0057) using <ul style="list-style-type: none"> - casting - digital capture/photography 	B	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Toolmarks (cont'd)	Comparison of submitted marks or marks made from suspect items with marks left at scene	Documented In-House methods (FSL0057) using visual examination, low power microscopy, comparison microscopy, dimensional measurements and photography	B
	<u>Opinion and Interpretation</u> 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 (FSL0057) using - Personal experience	B
Marks in blood	Location and enhancement of marks in blood from items recovered from crime scenes	Documented in house method (FSL0026/FSL0070) using - Sulphosalicylic acid Hydrogen Peroxide - methanol and heat fixing acid black 1 and leuco crystal violet	B
PAINT	<u>Forensic Analysis</u>		
	Search and recovery of paint and paint fragments from clothing and objects	Documented in house method (FSL0115 / FOR0134) using - visual examination - low power microscopy	A, B
	Comparison of recovered and control samples	Documented in house method (FSL0061/FSL0062/FSL0064/FSL00113) using - spot tests - fluorescence - high power microscopy - FTIR	A, B



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PAINT (cont'd)	<u>Forensic Analysis (cont'd)</u> <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 FOR0052	A, B
ALCOHOL TECHNICAL DEFENCE Alcohol Technical Defence (in relation to RTA) 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/urine alcohol levels to the time of accident or other incident from 8.3 µg% / 20mg% / 27mg% and above	Documented in house method TOX 0031 using mathematical calculations	A

END