Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



1497

Accredited to ISO/IEC 17025:2017

Forensic Science Northern Ireland

Issue No: 073 Issue date: 07 October 2025

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS and TISSUES	Forensic Analysis	
Blood - Whole - Stains Semen - Whole - Azoospermic Saliva - Whole - Stains Hair Cellular Material	DNA Profiling: Short Tandem Repeat (STR) for forensic analysis of: - Subject Samples (CJ and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented in-house method (TP4102) using manual extraction - QIAamp® DNA Investigator Documented in-house method (TP4158) using Manual quantification - Quantiplex Pro Documented in-house method (TP4150) using Manual amplification (PCR) and the following chemistry: - NGM SElect - ESI 17 Pro - Investigator® ESSplex SE QS Kit - PowerPlex® ESI 17 Fast Documented in-house methods (TP4159) using Electrophoresis - 3500xl Genetic Analyser©
Saliva - Swabs (buccal cells)	DNA Profiling: Short Tandem Repeat (STR) for forensic analysis of: - Subject Samples (CJ and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented in-house method (TP4156) using Direct amplification (PCR) and the following chemistry: - NGM SElect Express - Qiagen Investigator STR GO! with Investigator® ESSplex SE QS Kit - Promega swabsolution- Direct Amp PowerPlex® ESI 17 Fast Documented in-house methods (TP4159) using Electrophoresis - 3500xl Genetic Analyser©

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BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	
	Related Opinions and Interpretation Interpretation of DNA profiles generated internally from crime stains (single source/major-minor/complex mixtures) and reference samples	Documented in-house methods (TP4152 and TP4160) - Genetic Characterisation - Genemapper IdX - Expert Systems - STRMix (v2.11)
	Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)	
Blood - Whole - Stains Semen - Whole - Azoospermic Saliva - Whole - Stains Hair Cellular Material	DNA profiling: Y Chromosome DNA profiling for forensic analysis of: - Crime Scene Samples - Subject Samples (PACE and Volunteer)	Documented In-House Methods (TP4165) using Manual amplification (PCR) and the following chemistry: - Y23 Documented In-House Methods (TP4166) using Electrophoresis - Applied Biosystems 3500 Genetic Analyser©

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd) Related Opinions and Interpretation Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases	Documented in-house methods (TP4167, TP4168 and TP4067). Genetic Characterisation using - GMIDX v1.5 - YHRD
Any Material	Searching for: - Blood - Semen - Saliva - Hair	Documented in-house methods (TP4022, TP4023, TP4026, TP4030, TP4063, TP4065 and TP4064) using: - visual examination - low power microscopy - high power microscopy - chemical testing (see below)
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials: - Blood - Semen - Saliva - Cellular DNA - Hair	Documented in-house methods (TP4022, TP4023, TP4026, TP4030, TP4063, TP4064, and TP4065) using: - cutting - swabs and swabbing - extraction of stained materials - extraction of swabs - taping - mini-taping
Blood	Presumptive testing for Blood via detection of: - Peroxidase	Documented in-house method (TP4023) using: - visual Examination - KM (Kastle Meyer)
	Related Opinions and Interpretations Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented in-house method (TP-4062) using :

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BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	
Semen	Presumptive testing for seminal fluid, via detection of: - Acid Phosphatase - Choline	Documented in-house methods (TP4026, and TP4044) using: - visual Examination - acid phosphatase detection (colour reaction) - choline detection by Florence lodine test
	Confirmatory testing for seminal fluid via identification of: Spermatozoa	Documented in-house methods (TS4035, TP4041 and TP6500) using: - high power microscopy - Haematoxylin and Eosin staining - Christmas tree Stains
Saliva	Presumptive testing for saliva via detection of: - Amylase	Documented in-house method (TP4030) using: - visual examination - Phadebas paper - Phadebas tube test
BODY FLUIDS	Forensic Analysis/Medical and Legal Analysis	
Blood and Urine	Detection and quantification in relation to Article 13 the Northern Ireland Road Traffic Act 1995 Alcohol (10 - 700 mg%); 80mg/100ml	Documented in-house method (TP1013) using Headspace GC/FID analysis including the Clarus 500 system
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine)	Documented in-house method (TP1240) using automated SPE:
	Drug types/groups: - Ephedrine / - Pseudoephedrine (10/10ng/ml)	Extrahera extractionUPLC-HRMSQ-Exactive LC-HRMS

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BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)	Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd):	Documented in-house method (TP1240) using automated SPE:
	Opiods group: - Morphine (5/5ng/ml) - Dihydrocodeine (5/5ng/ml) - Codeine (5/5ng/ml) - Oxycodone(5/5ng/ml) - 6 – MAM (blood only) (1ng/ml) - Methadone (5/5ng/ml) - Tramadol (5/5ng/ml) - Buprenorphine (1/1ng/ml) - Fentanyl (1/1ng/ml) Antidepressant group: - Trazodone (5/5ng/ml) - Mirtazepine (5/5ng/ml) - Dothiepin (5/5ng/ml) - Imipramine (5/5ng/ml) - Amitriptyline (5/5ng/ml) - Nortriptyline (5/5ng/ml) - Venlafaxine (5/5ng/ml) - Venlafaxine (5/5ng/ml) - Paroxetine (5/5ng/ml) - Duloxetine (5/5ng/ml) - Fluoxetine (blood only) (5ng/ml) - Sertraline (blood only) (5ng/ml)	- Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS

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BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)	Presumptive screening for the presence of drugs (Cut-off Limit Blood;Urine (cont'd):	Documented in-house method (TP1240) using automated SPE extraction:
	Benzodiazepines and "z" groups: - 7 - Aminoclonazepam (blood only) (5ng/ml) - 7 - Aminoflunitrazepam (5/5ng/ml) - 7 - Aminonitrazepam (5/5ng/ml) - Flurazepam (5/5ng/ml) - Midazolam (5/5ng/ml) - Clonazepam (5/5ng/ml) - Flunitrazepam (5/5ng/ml) - Alprazolam (5/5ng/ml) - Chlordiazepoxide (5/5ng/ml) - Bromazepam (5/5ng/ml) - Demoxepam (5/5ng/ml) - Nitrazepam (5/5ng/ml) - Nordiazepam (5/5ng/ml) - Lorazepam (5/5ng/ml) - Nordiazepam (5/5ng/ml) - Temazepam (5/5ng/ml) - Diazepam (5/5ng/ml) - Zopiclone(5/5ng/ml) - Zopiclone(5/5ng/ml) - Zolpidem (5/5ng/ml) - Zaleplon (5/5ng/ml) - Cocaine group: - Cocaine (5/5ng/ml) - Benzoylecgonine (10/10ng/ml)	- Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)	Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) Contd:	Documented in-house method (TP1240) using automated SPE:
	Amphetamine group: - Amphetamine (10/10ng/ml) - Methamphetamine (10/10ng/ml) - Chloroamphetamine (10/10ng/ml) - MDMA (10/10ng/ml) - MDA (10/10ng/ml) - MDEA (10/10ng/ml) - MDEA (10/10ng/ml) - PMA (10/10ng/ml) - PMA (10/10ng/ml) - PMMA (10/10ng/ml) - Methylphenidate (10/10ng/ml) - Ethylphenidate (10/10ng/ml) - MBDB (10/10ng/ml) - 2C - B (10/10ng/ml) - DOB (2,5 - Dimethoxy-4-bromo-amphetamine) (10/10ng/ml) - DOM (10/10ng/ml) - DOM (10/10ng/ml) - Methedrone (10/10ng/ml) - Methedrone (10/10ng/ml) - Methylone (10/10ng/ml) - Methylone (10/10ng/ml) - Butylone (10/10ng/ml) - MDPBP (10/10ng/ml) - BMDP (10/10ng/ml) - MPBP (10/10ng/ml) - MPPB (10/10ng/ml) - MPPB (10/10ng/ml) - TFMPP (Trifluoromethyl-phenylpiperazine) (10/10ng/ml) - TFMPP (Trifluoromethyl-phenylpiperazine) (10/10ng/ml) - TFMPP (Trifluoromethyl-phenylpiperazine) (10/10ng/ml) - FMC (urine only) (10ng/ml) - FMC (urine only) (10ng/ml)	- Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS

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BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)	Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) Contd:	Documented in-house method (TP1240) using automated SPE:
	Anti-epileptics Group: - Pregabalin (100;1000/100;1000ng/ml) - Lamotrigine (10/10ng/ml) - Carbamazepine (10/10ng/ml) - Phenytoin (5/5ng/ml)	Extrahera extractionUPLC-HRMSQ-Exactive LC-HRMS
	Cannabis group: Delta-9-THC (blood Only) (5ng/ml) 11-Hydroxy— delta-9-THC (blood only) (5ng/ml) 11-Carboxy-delta- 9-THC (blood only) (5ng/ml)	
	Miscellaneous: Risperidone (5/5ng/ml) Chlorpheniramine (5/5ng/ml) Propranolol (10/10ng/ml) Diphenhydramine (5/5ng/ml) Cyclizine (5/5ng/ml) Promethazine (5/5ng/ml) Amiodarone (Blood Only) (10ng/ml) Paracetamol (100;1000/100;1000ng/ml) Ketamine (5/5ng/ml)	
Blood (Preserved, Unpreserved)	- 3 FMC /4- FMC(10/5/ng/ml) - Clomipramine (5/5ng/ml)	Q-Exactive LC-HRMS
Urine (Preserved, Unpreserved	- 3 FMC /4- FMC(10/10/ng/ml) - Clomipramine (5/5ng/ml) - 6 – MAM (10/10ng/ml) - 7-Amino clonazepam (10/10ng/ml) - Fluoxetine (5/5ng/ml) - Sertraline (5/5ng/ml)	Q-Exactive LC-HRMS

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DOCUMENTS	Forensic Analysis	
Handwriting (Roman script)	The examination of submitted items to compare handwriting from known and suspect sources.	Documented in-house Methods (TP5603, TP5610 and TS5612) using - Microscopy - ESDA (TP5611)
	Opinions and Interpretation The evaluation of the significance of any similarities and differences between the handwriting on submitted items and/or suspect/reference sources to determine the likelihood of them being written by the same/different individuals.	
Signatures	The examination of submitted items to compare signatures from known and suspect sources.	Documented in house methods (TP5604, TP5610, TS5612) using - visual examination - low power microscopy - photography
	Opinions and Interpretation The evaluation of the significance of any similarities and differences between signatures on submitted items and/or suspect/reference sources to determine the likelihood of them being written by the same/different individuals.	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DOCUMENTS (cont'd)	Forensic Analysis (cont'd)	
Paper and other material	Detection and enhancement of indented marks made by handwriting	Documented in-house methods (TP5612 and TS5612) using - oblique lighting - low power microscopy - ESDA
Printing Machines and their output including Impact and Non-Impact Printers and Photocopiers	Comparison of office printing equipment and outputs with suspect material	Documented in-house methods (TP5608 and TS5612) using - visual examination, - microscopy, - physical fit - visual comparison
Documents	Detection of alterations and decipherment of altered or obliterated entries - Ink examination - Paper examinations - Photocopying	Documented in-house methods (TP5609, TP5610 and TS5612) using - lighting techniques, - visual examination - microscopy - VSC
EXPLOSIVES	Forensic Analysis	
Trace Explosives	Recovery of explosives at trace level	Documented in-house methods (TP2003 and TP2005) using swabs
	Identification of explosives at trace level	Documented in-house methods using - GC/TEA (TP2002, TP2005, TP 2006, TS2023, TS2024 and TS2025) - UPLC-HRMS (TP2029 and TP2031)
Aqueous solutions extracted from Non-Trace Pyrotechnics and associated materials	Identification and confirmation of inorganic anions and cations and sugars found in explosives (cut off limit 2 mg.l ⁻¹)	Documented In-House Methods (TP2030) using Ion Chromatography
Non-Trace Pyrotechnics and associated materials	Identification and confirmation of sugars found in explosives (cut off limit 2 mg.l ⁻¹)	Documented In-House Methods (TP2030) using - Electrochemical detection (Integrion system EXP090)

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Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Forensic Analysis (cont'd)	
Identification of energetic materials	Documented in-house method (TP2035) using - FTIR Spectroscopy
Identification of the following bulk explosives	Documented in-house method (TP2023;2034;2017) using GC-FID
Forensic Analysis	
Search and recovery of fibres from clothing and objects for analysis	Documented in-house method (TP4058) using - visual examination, - low power microscopy and screening, - fibre recovery (taping) mounting
Identification of fibre type	Documented in-house method (TP4060) using - FTIR
Comparison of fibres	Documented in-house method (TP4009) using - stereo microscopy - comparison microscopy (TP4010)
Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres	Documented in-house method (TP4015) using - MSP (visiblelight)
Forensic Analysis	
Examination of discharged ammunition components to determine the number of guns used.	Documented in-house method (TP3016) using - comparison microscopy
Opinion and Interpretation The evaluation of features between recovered fired ballistic components	Documented in house methods TP3016 using: - Personal experience - Reference Collections
	Forensic Analysis (cont'd) Identification of energetic materials Identification of the following bulk explosives Forensic Analysis Search and recovery of fibres from clothing and objects for analysis Identification of fibre type Comparison of fibres Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres Forensic Analysis Examination of discharged ammunition components to determine the number of guns used. Opinion and Interpretation The evaluation of features between

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FIREARMS (cont'd)	Forensic Analysis (cont'd)	
Ammunition (cont'd)	Examination of cartridges to determine if ammunition has been loaded into a firearm	Documented in-house method (TP3016) using : - microscopy - comparison microscopy
	Comparison of spent ammunition to suspect guns	Documented in-house method (TP3016) using - comparison microscopy
	Opinion and Interpretation The evaluation of features on recovered fired ballistic components	Documented in house methods TP3016 using: - Personal experience - Reference Collections
	Ammunition and component identification and legal classification	Documented in-house method (TP3032) using :
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968 & Firearms Northern Ireland Order 2004)	Documented in-house method (TP3017 & TP3035) using comparison with known samples, reference standards and publications
	Firearm identification from class marks present on ammunition components	Documented in-house method (TP3016) using comparison with known samples and use of reference databases.
	Opinion and Interpretation The evaluation of features between recovered fired ballistic components	Documented in house methods TP3016 using: - Personal experience - Reference Collections
	Determination of Kinetic Energy of projectiles	Documented in-house method (TP3034) using chronograph and balance
	Test Firing to assess the functionality of weapons and/or ammunition.	Documented in-house method (TP3015) using suspect or reference guns and ammunition

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FIREARMS (cont'd)	Forensic Analysis (cont'd)	
Firearms (cont'd)	Test Firing to generate test samples of ammunition for comparison to exhibits	Documented in-house method (TP3015) using suspect or reference guns and ammunition
FLAMMABLE LIQUIDS (FIRE ACCELERANTS)	Forensic Analysis	
Material Recovered from and associated with Fire Scenes Common fire accelerant liquids	Examination and analysis of the following flammable liquids: - petrol - paraffin	Documented in-house methods (TP2116 and TP2117) using: - GCMS - ATD/GCMS
	dieselwhite spirit	
GUN SHOT RESIDUE (GSR / FDR / CDR)	Forensic Analysis	
Any Material Including type of matrix Bore Wipes	Recovery of in-organic gunshot residues (primer)	Documented in-house methods (TP3003 and TP3004) using - swabbing - vacuuming - carbon coated aluminium stubs
	Recovery of organic gunshot residue (propellant)	Documented in-house methods (TP3003 and TP3004) using - swabbing - vacuuming - filtering
Recovered Material	Identification of in-organic gunshot residues (primer)	Documented in-house methods (TP3002 and TP3006) using - SEM/EDX
	Identification of organic gunshot residues (propellant)	Documented in-house methods (TP2002, TP2006, TP2029, TP2031, TS2023, TS2024 & TS2025) using - GC TEA - UPLC-HRMS
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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MARKS AND IMPRESSIONS	Forensic Analysis	
Fingermarks Any material which is capable of retaining friction ridge marks	Enhancement of fingermarks	Documented in-house methods using chemical and physical enhancement techniques (method numbers provided in brackets): - Acid Dye Treatments: Fuschin Acid - 2% sulphosalicylic acid (TS5526), Acid Black 1 - aqueous (TP5115) - Cyanoacrylate (CNA) Fuming (TS5504 and TS5507) - Basic Yellow 40 - methanol based (BY40) (TS5508) - Rhodamine-6-G; methanol based and aqueous (TS5508) - Gentian Violet ethanol based and aqueous (TS4062) - Basic Red 14 - ethanol based (TS5508) - Safranine O – methanol based (TS5508) - Powdering Techniques (TS5528) Aluminium flake powder Black magnetic powder Black granular powder - 1,8-Diazafluoren-9-one (DFO) (TP5111) - Physical Developer (TP5119) - Ninhydrin (TP5113 and TS5523) - Sudan Black - ethanol based (TS5518) - Stabilised Iodine - aqueous (TS5524) - Leucoccrystal Violet (TS5520) - Selenious Acid etching (TS5521) - ISO Mark Casting (TS5527) - 1,2-Indandione (TP5511) - Natural Yellow 3 (TP5512.)

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	Type of toot/Droportion	Standard appointment
Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MARKS AND IMPRESSIONS (cont'd)	Forensic Analysis (cont'd)	
Fingermarks Any material which is capable of retaining friction ridge marks (cont'd)	Enhancement of fingermarks (cont'd)	Documented in-house methods using visual and lighting enhancement techniques - Visual examination - White Light and filtered Sources - High Intensity Light Sources (TP5501 and TS5502) Crimelite $Uv (\lambda = 350-380nm)$ Violet $(\lambda = 395-425nm)$, Blue $(\lambda = 430-470nm)$, Blue/green $(\lambda = 460-510nm)$, Green $(\lambda = 500-550nm)$ Rofin Polilight $\lambda = 350nm$ $\lambda = 415nm$ $\lambda = 450nm$ $\lambda = 450-505nm$ $\lambda = 505-530nm$ $\lambda = 505-530nm$ $TracER laser$ $\lambda = 460nm$ $\lambda = 532nm$ $\lambda = 577nm$ Documented in-house method (TP5504) for imaging / digital capture: - Digital SLR

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MARKS AND IMPRESSIONS (cont'd)	Forensic Analysis (cont'd)	
Footwear marks (physically or image)	Enhancement of footwear marks recovered from scenes	Documented in-house methods using - lighting techniques (TP5201, TS5533 and TS5537) - powders (TP5122) - ESLA (TP5120) Gel Lifting (TP5121) - digital capture photography (TP5201 and TP5202)
	Production of test marks from suspect footwear	Documented in-house methods (TP5108) using - black powder, adhesive film plus clear acetate sheet- static and dynamic - vegetable oil and Magna black method static and dynamic
Footwear mark (physically or image)	Assessment, Comparison and evaluation of footwear with scene marks	Documented in-house methods (TP5103, and TP5509) using visual examination, low power microscopy and dimensional measurements
VEHICLE COMPONENTS	Forensic Analysis	
Wheel assemblies removed from vehicles (tyres)	Examination of wheel assemblies and constituent parts of wheel assemblies (rims, tyres, inner tubes) Identification of damage and defects - Measurement of tread depth - Measurement of valve back pressure	Documented in-house method (TP3101) using: - visual examination, - optical microscopy, - length measurement, - pressure measurement.
Light bulbs from motor vehicles and pedal bicycles	Examination and investigation of cause of failure or defect	Documented in-house method (TP3104) using - visual examination, - optical microscopy, - electrical continuity illumination test.

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DRUGS	Forensic Analysis Legal classification of controlled drugs (Misuse of Drugs Act 1971) Presumptive testing for: Amphetamines Opiates	Documented in house method (method ref TP1118) using spot test - Marquis reagent
	MDMA Presumptive testing for: Cocaine	Documented in house method (method ref TP1118) using spot test - Acidified Cobalt Thiocyanate colour test
	Identification of Named controlled and non-controlled drugs:	Documented in house method (method ref TP1119) using - UPLC-HRMS

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DRUGS (cont'd)	Forensic Analysis Identification of characteristically marked proprietary pharmaceuticals, illicit copies and other drugs products	Documented in house method (method ref TP1118) using - visual comparison of appearance, markings - dimensions with reference materials, data collections and descriptions in authoritative texts
END		

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