


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>1497</p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<h3>Forensic Science Northern Ireland</h3> <p>Issue No: 059    Issue date: 19 August 2021</p>	
	<p>151 Belfast Road Carrickfergus Co Antrim Northern Ireland BT38 8PL</p>	<p>Contact: Quality Manager Tel: +44 (0)289 036 1888 Fax: +44 (0)289 036 1900 E-Mail: <a href="mailto:quality.enquiries@fsni.gov.uk">quality.enquiries@fsni.gov.uk</a> Website: <a href="http://www.fsni.gov.uk">www.fsni.gov.uk</a></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>BODY FLUIDS and TISSUES</b></p> <p>Blood</p> <ul style="list-style-type: none"> <li>- Whole</li> <li>- Stains</li> </ul> <p>Semen</p> <ul style="list-style-type: none"> <li>- Whole</li> <li>- Azoospermic</li> </ul> <p>Saliva</p> <ul style="list-style-type: none"> <li>- Whole</li> <li>- Stains</li> </ul> <p>Hair</p> <p>Cellular Material</p>	<p><u>Forensic Analysis</u></p> <p>DNA Profiling: Short Tandem Repeat (STR) for forensic analysis of:</p> <ul style="list-style-type: none"> <li>- Subject Samples (CJ and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database</li> <li>- Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database</li> </ul>	<p>Documented in-house method (TP4102) using manual extraction</p> <ul style="list-style-type: none"> <li>- Qiagen Kits</li> </ul> <p>Documented in-house method (TP4158) using Manual quantification</p> <ul style="list-style-type: none"> <li>- Quantiplex Pro</li> <li>- Real Time</li> </ul> <p>Documented in-house method (TP4150) using Manual amplification (PCR) and the following chemistry:</p> <ul style="list-style-type: none"> <li>- NGM SElect</li> <li>- ESI 17</li> </ul> <p>Documented in-house methods (TP4151 and TP4159) using Electrophoresis</p> <ul style="list-style-type: none"> <li>- Applied Biosystems 3130/3130xl Genetic Analyser©</li> <li>- 3500xl Genetic Analyser©</li> </ul>
<p>Saliva</p> <ul style="list-style-type: none"> <li>- Swabs (buccal cells)</li> </ul>	<p>DNA Profiling: Short Tandem Repeat (STR) for forensic analysis of:</p> <ul style="list-style-type: none"> <li>- Subject Samples (CJ and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database</li> </ul>	<p>Documented in-house method (TP4156) using Direct amplification (PCR) and the following chemistry:</p> <ul style="list-style-type: none"> <li>- NGM SElect Express</li> <li>- ESI 17 Fast</li> </ul> <p>Documented in-house methods (TP4151 and TP4159) using Electrophoresis</p> <ul style="list-style-type: none"> <li>- Applied Biosystems 3130/3130xl Genetic Analyser©</li> <li>- 3500xl Genetic Analyser©</li> </ul>



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Any Material</p> <p>Blood</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p><u>Related Opinions and Interpretation</u> Interpretation of DNA profiles generated internally from crime stains (single source/major-minor/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>Searching for:</p> <ul style="list-style-type: none"> <li>- Blood</li> <li>- Semen</li> <li>- Saliva</li> <li>- Hair</li> </ul> <p>Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials:</p> <ul style="list-style-type: none"> <li>- Blood</li> <li>- Semen</li> <li>- Saliva</li> <li>- Cellular DNA</li> <li>- Hair</li> </ul> <p>Presumptive testing for Blood via detection of:</p> <ul style="list-style-type: none"> <li>- Peroxidase</li> </ul> <p><u>Related Opinions and Interpretations</u> Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory</p>	<p>Documented in-house methods (TP4066, TP4152 and TP4160)</p> <ul style="list-style-type: none"> <li>- Genetic Characterisation               <ul style="list-style-type: none"> <li>• GMID 3.2.1</li> <li>• Genemapper IdX</li> <li>• Expert Systems                   <ul style="list-style-type: none"> <li>○ STRMix (v2.7)</li> </ul> </li> </ul> </li> </ul> <p>Documented in-house methods (TP4022, TP4023, TP4026, TP4030, TP4043, TP4053, TP4065 and TP4064) using:</p> <ul style="list-style-type: none"> <li>- visual examination</li> <li>- low power microscopy</li> <li>- high power microscopy</li> <li>- chemical testing (see below)</li> </ul> <p>Documented in-house methods (TP4022, TP4023, TP4026, TP4030, TP4043, TP4053, TP4063, and TP4065) using:</p> <ul style="list-style-type: none"> <li>- cutting</li> <li>- swabs and swabbing</li> <li>- extraction of stained materials</li> <li>- extraction of swabs</li> <li>- taping</li> <li>- mini-taping</li> </ul> <p>Documented in-house method (TP4023) using:</p> <ul style="list-style-type: none"> <li>- visual Examination</li> <li>- KM (Kastle Meyer)</li> </ul> <p>Documented in-house method (TP-4062) using :</p> <ul style="list-style-type: none"> <li>- visual examination</li> <li>- low power microscopy</li> <li>- dimensional measurement</li> </ul>



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BODY FLUIDS and TISSUES (cont'd)  Semen          Saliva	<u>Forensic Analysis</u> (cont'd)  Presumptive testing for seminal fluid, via detection of: - Acid Phosphatase - Choline  Confirmatory testing for seminal fluid via identification of: Spermatozoa  Presumptive testing for saliva via detection of: - Amylase	Documented in-house methods (TP4026, TP4043 and TP4044) using: - visual Examination - acid phosphatase detection (colour reaction) - choline detection by Florence Iodine test  Documented in-house methods (TS4035, TP4041 and TP6500) using: - high power microscopy - Haematoxylin and Eosin staining - Christmas tree Stains  Documented in-house method (TP4030) using: - visual examination - Phadebas paper - Phadebas tube test
BODY FLUIDS  Blood and Urine	<u>Forensic Analysis/Medical and Legal Analysis</u> 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)  Drug types/groups : - Ephedrine / - Pseudoephedrine (10/10ng/ml)	Documented in-house method (TP1240) using automated SPE:  - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS



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<p>BODY FLUIDS</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)</p>	<p><u>Forensic Analysis/Medical and Legal Analysis</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) Contd:</p> <p>Opiods group :</p> <ul style="list-style-type: none"> <li>- Morphine (5/5ng/ml)</li> <li>- Dihydrocodeine (5/5ng/ml)</li> <li>- Codeine (5/5ng/ml)</li> <li>- Oxycodone(5/5ng/ml)</li> <li>- 6 – MAM (blood only) (1ng/ml)</li> <li>- Methadone (5/5ng/ml)</li> <li>- Tramadol (5/5ng/ml)</li> <li>- Buprenorphine (1/1ng/ml)</li> <li>- Fentanyl (1/1ng/ml)</li> </ul> <p>Antidepressant group:</p> <ul style="list-style-type: none"> <li>- Trazodone (5/5ng/ml)</li> <li>- Mirtazepine (5/5ng/ml)</li> <li>- Dothiepin (5/5ng/ml)</li> <li>- Imipramine (5/5ng/ml)</li> <li>- Amitriptyline (5/5ng/ml)</li> <li>- Nortriptyline (5/5ng/ml)</li> <li>- Citalopram (5/5ng/ml)</li> <li>- Venlafaxine (5/5ng/ml)</li> <li>- Paroxetine (5/5ng/ml)</li> <li>- Duloxetine (5/5ng/ml)</li> <li>- Fluoxetine (blood only) (5ng/ml)</li> <li>- Sertraline (blood only) (5ng/ml)</li> </ul>	<p>Documented in-house method (TP1240) using automated SPE:</p> <ul style="list-style-type: none"> <li>- Extrahera extraction</li> <li>- UPLC-HRMS</li> <li>- Q-Exactive LC-HRMS</li> </ul>



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BODY FLUIDS  Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))	<u>Forensic Analysis/Medical and Legal Analysis</u>  Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) Contd:  Anti-epileptics Group: - Pregabalin (100;1000/100;1000ng/ml) - Lamotrigine (10/10ng/ml) - Carbamazepine (10/10ng/ml) - Phenytoin (5/5ng/ml)  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)	Documented in-house method (TP1240) using automated SPE:  - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS
Blood (Preserved, Unpreserved)	- <u>3 FMC /4- FMC(10/5/ng/ml)</u> <u>Clomipramine (5/5ng/ml)</u>	Q-Exactive LC-HRMS
Urine (Preserved, Unpreserved)	- <u>3 FMC /4- FMC(10/10/ng/ml)</u> - Clomipramine (5/5ng/ml) - 6 – MAM (10/10ng/ml) - <u>7-Amino clonazepam (10/10ng/ml)</u> - <u>Fluoxetine (5/5ng/ml)</u> <u>Sertraline (5/5ng/ml)</u>	Q-Exactive LC-HRMS



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<p>DOCUMENTS</p> <p>Handwriting (Roman script)</p> <p>Signatures</p>	<p><u>Forensic Analysis</u></p> <p>The examination of submitted items to compare handwriting from known and suspect sources to establish links and/or authorship</p> <p>The examination of submitted items to compare signatures from known and suspect sources to establish links and/or authorship</p>	<p>Documented in-house Methods (TP5603, TP5610 and TS5612) using</p> <ul style="list-style-type: none"> <li>- Microscopy</li> <li>- ESDA (TP5611)</li> </ul> <p>Documented in house methods (TP5604, TP5610, TS5612) using</p> <ul style="list-style-type: none"> <li>- visual examination</li> <li>- low power microscopy</li> <li>- photography</li> </ul>
<p>DOCUMENTS (cont'd)</p> <p>Paper and other material</p> <p>Printing Machines and their output including Impact and Non-Impact Printers and Photocopies</p> <p>Documents</p>	<p><u>Forensic Analysis (cont'd)</u></p> <p>Detection and enhancement of indented marks made by handwriting</p> <p>Comparison of office printing equipment and outputs with suspect material</p> <p>Detection of alterations and decipherment of altered or obliterated entries</p> <ul style="list-style-type: none"> <li>- Ink examination</li> <li>- Paper examinations</li> <li>- Photocopying</li> </ul>	<p>Documented in-house methods (TP5612 and TS5612) using</p> <ul style="list-style-type: none"> <li>- oblique lighting</li> <li>- low power microscopy</li> <li>- ESDA</li> </ul> <p>Documented in-house methods (TP5606, TP5607, TP5608 and TS5612) using</p> <ul style="list-style-type: none"> <li>- visual examination,</li> <li>- microscopy,</li> <li>- physical fit</li> <li>- visual comparison</li> </ul> <p>Documented in-house methods (TP5609, TP5610 and TS5612) using</p> <ul style="list-style-type: none"> <li>- lighting techniques,</li> <li>- visual examination</li> <li>- microscopy</li> <li>- VSC</li> </ul>







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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  Comparison of spent ammunition to suspect guns  Ammunition and component identification and legal classification	Documented in-house method (TP3016) using - comparison microscopy  Documented in-house method (TP3016) using : - microscopy - comparison microscopy  Documented in-house method (TP3016) using - comparison microscopy  Documented in-house method (TP3017) using : - weighing - length measurement - use of known samples or standard reference data.
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968)  Firearm identification from class marks present on ammunition components  Determination of Kinetic Energy of projectiles  Test Firing to assess the functionality of weapons and/or ammunition.  Test Firing to generate test samples of ammunition for comparison to exhibits	Documented in-house method (TP3017) using comparison with known samples, reference standards and publications  Documented in-house method (TP3016) using comparison with known samples and use of reference databases.  Documented in-house method (TP3034) using chronograph and balance  Documented in-house method (TP3015) using suspect or reference guns and ammunition  Documented in-house method (TP3015) using suspect or reference guns and ammunition



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<p><b>FLAMMABLE LIQUIDS (FIRE ACCELERANTS)</b></p> <p>Material Recovered from and associated with Fire Scenes</p> <p>Common fire accelerant liquids</p>	<p><u>Forensic Analysis</u></p> <p>Examination and analysis of the following flammable liquids:</p> <ul style="list-style-type: none"> <li>- petrol</li> <li>- paraffin</li> <li>- diesel</li> <li>- white spirit</li> </ul>	<p>Documented in-house methods (TP2116 and TP2117) using:</p> <ul style="list-style-type: none"> <li>- GCMS</li> <li>- ATD/GCMS</li> </ul>
<p><b>GUN SHOT RESIDUE (GSR / FDR / CDR)</b></p> <p>Any Material Including type of matrix Bore Wipes</p> <p>Recovered Material</p>	<p><u>Forensic Analysis</u></p> <p>Recovery of in-organic gunshot residues (primer)</p> <p>Recovery of organic gunshot residue (propellant)</p> <p>Identification of in-organic gunshot residues (primer)</p> <p>Identification of organic gunshot residues (propellant)</p>	<p>Documented in-house methods (TP3003 and TP3004) using</p> <ul style="list-style-type: none"> <li>-swabbing</li> <li>- vacuuming</li> <li>- carbon coated aluminium stubs</li> </ul> <p>Documented in-house methods (TP3003 and TP3004) using</p> <ul style="list-style-type: none"> <li>- swabbing</li> <li>- vacuuming</li> <li>- filtering</li> </ul> <p>Documented in-house methods (TP3002 and TP3006) using</p> <ul style="list-style-type: none"> <li>- SEM/EDX</li> <li>-</li> </ul> <p>Documented in-house methods (TP2002, TP2006, TP2029, TP2031, TS2023, TS2024 and TS2025) using</p> <ul style="list-style-type: none"> <li>- GC TEA</li> <li>- UPLC-HRMS</li> </ul>







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<p>DIGITAL DEVICES AND DATA (Cont'd)</p> <p>Mobile phone handsets and tablets associated with the following operating systems:</p> <ul style="list-style-type: none"> <li>- Apple iOS</li> <li>- Google Android</li> <li>- Non-smartphone proprietary systems</li> </ul> <p>(U)SIM cards</p> <p>Memory cards associated with mobile phone handsets and tablets</p>	<p><u>Forensic Analysis</u></p> <p>Processing of data</p> <p>Logical capture and preservation of data</p> <p>Processing of data</p> <p>Physical capture and preservation of data</p> <p>Processing of data</p>	<p>Documented in-house method(s) (TP6402) using:</p> <ul style="list-style-type: none"> <li>- XRY</li> <li>- XAMN</li> <li>- UFED Physical Analyzer</li> </ul> <p>Documented in-house method(s) (TP6402) using:</p> <ul style="list-style-type: none"> <li>- XRY</li> <li>- UFED Touch2</li> </ul> <p>Documented in-house method(s) (TP6402) using:</p> <ul style="list-style-type: none"> <li>- XRY</li> <li>- XAMN</li> <li>- UFED Physical Analyzer</li> </ul> <p>Documented in-house method(s) (TP6402) using:</p> <ul style="list-style-type: none"> <li>- AccessData FTK Imager</li> </ul> <p>Documented in-house method(s) (TP6402) using:</p> <ul style="list-style-type: none"> <li>- XRY</li> <li>- XAMN</li> <li>- UFED Physical Analyzer</li> </ul>



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<b>VEHICLE COMPONENTS</b>  Wheel assemblies removed from vehicles (tyres)  Light bulbs from motor vehicles and pedal bicycles	<u>Forensic Analysis</u>  Examination of wheel assemblies and constituent parts of wheel assemblies (rims, tyres, inner tubes)  Identification of damage and defects <ul style="list-style-type: none"><li>- Measurement of tread depth</li><li>- Measurement of valve back pressure</li></ul> Examination and investigation of cause of failure or defect	  Documented in-house method (TP3101) using: <ul style="list-style-type: none"><li>- visual examination,</li><li>- optical microscopy,</li><li>- length measurement,</li><li>- pressure measurement.</li></ul>  Documented in-house method (TP3104) using <ul style="list-style-type: none"><li>- visual examination,</li><li>- optical microscopy,</li><li>- electrical continuity illumination test.</li></ul>
END		