





1497

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**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Forensic Science Northern Ireland**

**Issue No: 050 Issue date: 09 August 2019**

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Any Material</p> <p>Blood</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><u>Forensic Analysis (cont'd)</u></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></p> <p>Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory</p>	<p>Documented In-House methods</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 (v2.5)</li> </ul> </li> </ul> </li> </ul> <p>Documented In-House Methods 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 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 Methods using:</p> <ul style="list-style-type: none"> <li>- Visual Examination</li> <li>- KM (Kastle Meyer)</li> </ul> <p>Documented In-House Methods (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)	<u>Forensic Analysis</u> (cont'd)	
Semen	Presumptive testing for seminal fluid, via detection of: <ul style="list-style-type: none"> <li>- Acid Phosphatase</li> <li>- Choline</li> </ul> Confirmatory testing for seminal fluid via identification of: Spermatozoa	Documented In-House Methods using: <ul style="list-style-type: none"> <li>- Visual Examination</li> <li>- Acid phosphatase detection (colour reaction)</li> <li>- Choline detection by Florence Iodine test</li> </ul> Documented In-House Methods using: <ul style="list-style-type: none"> <li>- High power microscopy</li> <li>- Haematoxylin and Eosin staining</li> <li>- Christmas tree Stains</li> </ul>
Saliva	Presumptive testing for saliva via detection of: <ul style="list-style-type: none"> <li>- Amylase</li> </ul>	Documented In-House Methods using: <ul style="list-style-type: none"> <li>- Visual examination</li> <li>- Phadebas paper</li> <li>- Phadebas tube test</li> </ul>
BODY FLUIDS	<u>Forensic Analysis/Medical and Legal Analysis</u>	
Blood and Urine	Detection and quantification in relation to Article 13 the Northern Ireland Road Traffic Act 1995 Alcohol (20 - 200 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 : <ul style="list-style-type: none"> <li>- Methylethylcathinones (10/10ng/ml)</li> <li>- Fluoromethacathinones (10/10ng/ml)</li> <li>- ephedrine/pseudoephedrine (10/50ng/ml)</li> </ul>	Documented in house method (TP1240) using : <ul style="list-style-type: none"> <li>- UPLC-HRMS</li> </ul>



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd):</p> <p>Opioids 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)6 – MAM (1/1ng/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>- Clomipramine (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 (5/5ng/ml)</li> <li>- Sertraline (5/5ng/ml)</li> </ul>	<p>Documented in house method (TP1240) using :</p> <ul style="list-style-type: none"> <li>- UPLC-HRMS</li>   <li>- UPLC-HRMS</li> </ul>



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood;Urine (cont'd):</p> <p>Benzodiazepines and "z" groups:</p> <ul style="list-style-type: none"> <li>- 7 –Aminoclonazepam (5/5ng/ml)</li> <li>- 7 –Aminoflunitrazepam (5/5ng/ml)</li> <li>- 7 – Aminonitrazepam (5/5ng/ml)</li> <li>- Flurazepam (5/5ng/ml)</li> <li>- Midazolam (5/5ng/ml)</li> <li>- Clonazepam (5/5ng/ml)</li> <li>- Flunitrazepam (5/5ng/ml)</li> <li>- Alprazolam (5/5ng/ml)</li> <li>- Chlordiazepoxide (5/5ng/ml)</li> <li>- Bromazepam (5/5ng/ml)</li> <li>- Demoxepam (5/5ng/ml)</li> <li>- Nitrazepam (5/5ng/ml)</li> <li>- Oxazepam (5/5ng/ml)</li> <li>- Lorazepam (5/5ng/ml)</li> <li>- Desmethyldiazepam (5/5ng/ml)</li> <li>- Temazepam (5/5ng/ml)</li> <li>- Diazepam (5/5ng/ml)</li> <li>- Phenazepam (5/5ng/ml)</li> <li>- Zopiclone(5/5ng/ml)</li> <li>- Zolpidem (5/5ng/ml)</li> <li>- Zaleplon (5/5ng/ml)</li> </ul> <p>Cocaine group: Cocaine (5/5ng/ml) Benzoyllecgonine (10/10ng/ml)</p>	<p>Documented in house method (TP1240) using :</p> <ul style="list-style-type: none"> <li>- UPLC-HRMS</li> <li>- UPLC-HRMS</li> </ul>



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd):</p> <p>Amphetamine group:</p> <ul style="list-style-type: none"> <li>- Amphetamine (10/10ng/ml)</li> <li>- Methamphetamine (10/10ng/ml)</li> <li>- Chloroamphetamine (10/10ng/ml)</li> <li>- MDMA (10/10ng/ml)</li> <li>- MDA (10/50ng/ml)</li> <li>- MDEA (10/10ng/ml)</li> <li>- PMA (10/50ng/ml)</li> <li>- PMMA (10/50ng/ml)</li> <li>- Methylphenidate (10/10ng/ml)</li> <li>- Ethylphenidate (10/10ng/ml)</li> <li>- MBDB (10/10ng/ml)</li> <li>- 2C – B (10/10ng/ml)</li> <li>- 2C – I (10/10ng/ml)</li> <li>- DOB (2,5 - Dimethoxy-4-bromo-amphetamine) (10/10ng/ml)</li> <li>- DOM (10/10ng/ml)</li> </ul> <p>Novel Psychoactive Substances:</p> <ul style="list-style-type: none"> <li>Cathinone (10/10ng/ml)</li> <li>Ethylone (10/10ng/ml)</li> <li>Methedrone (10/10ng/ml)</li> <li>Methylone (10/10ng/ml)</li> <li>Butylone (10/10ng/ml)</li> <li>Pentylone (10/10ng/ml)</li> <li>MDPBP (10/10ng/ml)</li> <li>BMDP (10/10ng/ml)</li> <li>Methcathinone (10/10ng/ml)</li> <li>Buphedrone</li> <li>Mephedrone (4-MMC) (10/10ng/ml)</li> <li>4 - Methyl - paramethyl - Aminorex (10/10ng/ml)</li> <li>BZP (Benzylpiperazine) (10/10ng/ml)</li> <li>MDPV (Methylenedioxy - pyrovalerone) (10/10ng/ml)</li> <li>TFMPP (Trifluoromethyl-phenylpiperazine) (10/10ng/ml)</li> </ul>	<p>Documented in house method (TP1240) using :</p> <ul style="list-style-type: none"> <li>- UPLC-HRMS</li> <li>- UPLC-HRMS</li> </ul>



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd):</p> <p>Anti-epileptics Group:</p> <ul style="list-style-type: none"> <li>- Pregabalin (100;1000/100;1000ng/ml)</li> <li>- Lamotrigine ((10/10ng/ml))</li> <li>- Carbamazepine (10/10ng/ml)</li> <li>- Phenytoin (10/10ng/ml)</li> </ul> <p>Cannabis group:</p> <ul style="list-style-type: none"> <li>- Delta-9-THC (Blood Only) (5ng/ml)</li> <li>- 11-Hydroxy- delta-9-THC (5/5ng/ml)</li> <li>- 11-Carboxy-delta- 9-THC (5/5ng/ml)</li> </ul> <p>Miscellaneous:</p> <ul style="list-style-type: none"> <li>- Risperidone (5/5ng/ml)</li> <li>- Chlorpheniramine (5/5ng/ml)</li> <li>- Propranolol (10/10ng/ml)</li> <li>- Diphenhydramine (5/5ng/ml)</li> <li>- Cyclizine (5/5ng/ml)</li> <li>- Promethazine (5/5ng/ml)</li> <li>- Amiodarone (Blood Only) (10ng/ml)</li> <li>- Paracetamol (100;1000/100;1000ng/ml)</li> <li>- Ketamine (10/10ng/ml)</li> </ul>	<p>Documented in house method (TP1240) using :</p> <ul style="list-style-type: none"> <li>- UPLC-HRMS</li> <li>- UPLC-HRMS</li> <li>- UPLC-HRMS</li> </ul>
<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 using</p> <ul style="list-style-type: none"> <li>- Microscopy</li> <li>- ESDA</li> </ul> <p>Documented in house method using</p> <ul style="list-style-type: none"> <li>- visual examination</li> <li>- low power microscopy</li> <li>- photography</li> </ul>



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DOCUMENTS (cont'd)	<u>Forensic Analysis</u> (cont'd)	
Paper and other material	Detection and enhancement of indented marks made by handwriting	Documented in house method using <ul style="list-style-type: none"> <li>- oblique lighting</li> <li>- low power microscopy</li> <li>- ESDA</li> </ul>
Printing Machines and their output including Impact and Non-Impact Printers and Photocopies	Comparison of office printing equipment and outputs with suspect material	Documented in house method using <ul style="list-style-type: none"> <li>- visual examination,</li> <li>- microscopy,</li> <li>- physical fit</li> <li>- visual comparison</li> </ul>
Documents	Detection of alterations and decipherment of altered or obliterated entries <ul style="list-style-type: none"> <li>- Ink examination</li> <li>- Paper examinations</li> <li>- Photocopying</li> </ul>	Documented in house method using <ul style="list-style-type: none"> <li>- lighting techniques,</li> <li>- visual examination</li> <li>- microscopy</li> <li>- VSC</li> </ul>
EXPLOSIVES	<u>Forensic Analysis</u>	
Trace Explosives	Recovery of explosives at trace level	Documented In-House Methods using swabs
	Identification of explosives at trace level	Documented In-House Methods using <ul style="list-style-type: none"> <li>- GC/TEA</li> <li>- UPLC-HRMS</li> </ul>
Non-Trace, Pyrotechnics and Associated Material	Identification of energetic materials	Documented In-House Methods using <ul style="list-style-type: none"> <li>- FTIR Spectroscopy</li> </ul>
FIBRES	<u>Forensic Analysis</u>	
	Search and recovery of fibres from clothing and objects for analysis	Documented in house method using <ul style="list-style-type: none"> <li>- visual examination,</li> <li>- low power microscopy and screening,</li> <li>- fibre recovery (taping) mounting</li> </ul>
	Identification of fibre type	Documented in house method using <ul style="list-style-type: none"> <li>- FTIR</li> </ul>
	Comparison of fibres	Documented in house method using <ul style="list-style-type: none"> <li>- stereo microscopy</li> <li>- comparison microscopy</li> </ul>





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<p>FIBRES (cont'd)</p> <p>FIREARMS Ammunition</p> <p>Firearms</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres</p> <p><u>Forensic Analysis</u></p> <p>Examination of discharged ammunition components to determine the number of guns used.</p> <p>Examination of cartridges to determine if ammunition has been loaded into a firearm</p> <p>Comparison of spent ammunition to suspect guns</p> <p>Ammunition and component identification and legal classification</p> <p>Firearm and firearm component part identification and legal classification (Firearms Act 1968)</p> <p>Firearm identification from class marks present on ammunition components</p> <p>Determination of Kinetic Energy of projectiles</p> <p>Test Firing to assess the functionality of weapons and/or ammunition.</p> <p>Test Firing to generate test samples of ammunition for comparison to exhibits</p>	<p>Documented in house method using</p> <ul style="list-style-type: none"> <li>- MSP (visiblelight)</li> </ul> <p>Documented In house methods using comparison microscopy</p> <p>Documented In house methods using :</p> <ul style="list-style-type: none"> <li>- Microscopy</li> <li>- comparison microscopy</li> </ul> <p>Documented In house methods using comparison microscopy</p> <p>Documented In house method using :</p> <ul style="list-style-type: none"> <li>- Weighing</li> <li>- length measurement</li> <li>- use of known samples or standard reference data.</li> </ul> <p>Documented In house method using comparison with known samples, reference standards and publications</p> <p>In house method using comparison with known samples and use of reference databases.</p> <p>Documented In house method using chronograph and balance</p> <p>Documented In house method using suspect or reference guns and ammunition</p> <p>Documented In house method using suspect or reference guns and ammunition</p>



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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 using:</p> <ul style="list-style-type: none"> <li>- GC-MS</li> </ul>
<p><b>GUN SHOT RESIDUE (GSR / FDR / CDR)</b></p> <p>Any Material Including type of matrix Bore Wipes</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>Documented in house method using</p> <ul style="list-style-type: none"> <li>- Vacuuming</li> <li>- Carbon coated aluminium stubs</li> </ul> <p>Documented in house method using</p> <ul style="list-style-type: none"> <li>- Swabbing</li> <li>- Vacuuming</li> <li>- Filtering</li> </ul>
<p>Recovered Material</p>	<p>Identification of in-organic gunshot residues (primer)</p> <p>Identification of organic gunshot residues (propellant)</p>	<p>Documented in house method using</p> <ul style="list-style-type: none"> <li>- SEM/EDX</li> <li>- SEM/EDS</li> </ul> <p>Documented in house method using</p> <ul style="list-style-type: none"> <li>- GC TEA</li> <li>- UPLC-HRMS</li> </ul>



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<p><b>MARKS AND IMPRESSIONS</b></p> <p>Fingermarks Any material which is capable of retaining friction ridge marks</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks</p> <p>Footwear marks (physically or image)</p>	<p><u>Forensic Analysis</u></p> <p>Enhancement of fingermarks</p> <p>Enhancement of fingermarks</p> <p>Enhancement of footwear marks recovered from scenes</p>	<p>Documented In-House Methods using chemical enhancement and lighting techniques :</p> <ul style="list-style-type: none"> <li>- Acid Treatments: Fuschin Acid, Acid Black 1</li> <li>- Cyanoacrylate (CNA) Fuming</li> <li>- Basic Yellow 40 (BY40)</li> <li>- Rhodamine-6-G</li> <li>- Gentian Violet</li> <li>- Basic Red 14</li> <li>- Safranin O</li> <li>- Powdering Techniques: (flake, magnetic and non-magnetic)</li> <li>- 1,8-Diazafluoren-9-one (DFO)</li> <li>- Physical Developer</li> <li>- Ninhydrin</li> <li>- Sudan Black</li> <li>- Sablised Iodine</li> <li>- Leuococrystal Violet</li> <li>- Selenious Acid etching</li> <li>- ISO Mark Casting</li> </ul> <p>Documented In-House Methods using lighting techniques</p> <ul style="list-style-type: none"> <li>- White Light and Filtered Sources</li> <li>- High Energy Light Sources</li> </ul> <p>Documented In-House Methods for imaging / digital capture</p> <p>Documented in house method using</p> <ul style="list-style-type: none"> <li>- lighting techniques</li> <li>- powders</li> <li>- ESLA</li> <li>- digital capture photography</li> </ul>



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MARKS AND IMPRESSIONS (cont'd)	<u>Forensic Analysis</u> (cont'd)	
Footwear mark (physically or image)	Production of test marks from suspect footwear	Documented in house method using <ul style="list-style-type: none"> <li>- Black powder, adhesive film plus clear acetate sheet</li> <li>- Vegetable oil and Magna black method</li> <li>- Gel Lifting</li> <li>- digital capture photography</li> </ul>
MOBILE PHONE HANDSETS, (U)SIM CARDS AND ASSOCIATED MEMORY CARDS	<u>Forensic Analysis</u>	
	Logical capture and preservation of data (SIM Card, Handset, Memory Card)	Documented In-house methods using the following 3 <sup>rd</sup> party data extraction software: <ul style="list-style-type: none"> <li>- Micro Systemation AB (MSAB) XRY</li> <li>- Cellebrite UFED</li> </ul>
VEHICLE COMPONENTS	<u>Forensic Analysis</u>	
Wheel assemblies removed from vehicles (tyres)	Examination of wheel assemblies and constituent parts of wheel assemblies (rims, tyres, inner tubes)	Documented In-House Method using: <ul style="list-style-type: none"> <li>- visual examination,</li> <li>- optical microscopy,</li> <li>- length measurement</li> <li>- pressure measurement</li> </ul>
	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>	
Light bulbs from motor vehicles and pedal bicycles	Examination and investigation of cause of failure or defect	Documented In-House Methods using visual examination, optical microscopy, electrical continuity illumination test
END		