


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Forensic Explosives Laboratory</h3> <p>Issue No: 020 Issue date: 27 January 2012</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
EXPLOSIVES, TRACE	<p><u>Chemical Testing</u></p> <p>Methodologies for the recovery of explosives at trace level (excluding peroxides)</p> <p>Clean-up methods to provide final extracts for analysis (excluding peroxides)</p> <p>Clean-up method to provide final extracts for analysis for HMTD and TATP</p> <p>Methodologies for the preparation and quality assurance of explosives recovery kits and their components</p> <p>Identification and confirmation of explosives at trace level</p> <p>Identification and confirmation of HMTD</p> <p>Identification and confirmation of TATP</p>	<p>Documented In-House Methods:</p> <p>SOP 204 (HTK workup) SOP 206 (use and extraction of swabs) SOP 210 (vacuum sampling) SOP 211 (solvent wash)</p> <p>SOP 200 (using Chromosorb 104)</p> <p>SOP 220 (using Isolute ENV[†])</p> <p>SOP 207 (swabs) SOP 209 (TERK)</p> <p>SM 110 (GC-TEA) SM 113 (GC-TEA)</p> <p>SM 171 (LC/MS and LC/MS/MS analysis)</p> <p>SM 172 (LC/MS and LC/MS/MS analysis)</p>



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EXPLOSIVES, TRACE (cont'd)	<p><u>Chemical Testing</u> (cont'd)</p> <p>Laboratory maintenance and quality assurance at trace level</p>	<p>Documented In-House Methods:</p> <p>SOP 111 (maintenance of GC systems) SOP 112 (control charts) SOP 202 (QA monitoring) SOP 203 (cleaning laboratories) SOP 205 (work in trace areas) SOP 214 (air handling system)</p>
EXPLOSIVES, NON-TRACE, PYROTECHNICS and ASSOCIATED MATERIAL	<p><u>Chemical Testing</u></p> <p>Identification of the following anions, cations and sugars:</p> <p>Anions: chloride, chlorate, perchlorate, nitrite, nitrate, bromide, sulphate, phosphate, thiocyanate</p> <p>Cations: lithium; sodium, potassium, magnesium, calcium, strontium, barium, ammonium</p> <p>Sugars: glucose, fructose, sucrose, lactose</p> <p>Identification of energetic materials</p> <p>Identification of peroxide based explosives</p> <p>Qualitative elemental analysis</p> <p>The analysis of fire accelerants to indicate the presence / absence of hydrocarbon based fire accelerants</p>	<p>Documented In-House Methods:</p> <p>SM 106 (using ion chromatography)</p> <p>SM 130 (using TLC) SM 140 (using FTIR Spectroscopy) SM 403 (using GC/FID)</p> <p>SM 132 (using TLC)</p> <p>SM 310 (using EDS)</p> <p>SM 420 (using GC/FID)</p>



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FORENSIC EXHIBITS	<u>Dimensional Tests</u> Examination of wires Measurement of physical dimensions <u>Electrical Measurements</u> Measurement of electrical quantities	Documented In-House Methods: SM 301 SM 303 SM 304
	END	