

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0215</b> Accredited to ISO/IEC 17025:2017	<b>Butterworth Laboratories Ltd</b>	
	Issue No: 037 Issue date: 16 November 2021	
	54-56 Waldegrave Road Teddington Middlesex TW11 8NY	Contact: Mr D Hawkins Tel: +44 (0)20 8977 0750 Fax: +44 (0)20 8943 2624 E-Mail: info@butterworth-labs.co.uk Website: www.butterworth-labs.co.uk
Testing performed by the Organisation at the locations specified		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> 54-56 Waldegrave Road Teddington Middlesex TW11 8NY	<b>Local contact</b> Mr D Hawkins Tel: +44 (0)20 8977 0750 Fax: +44 (0)20 8943 2624 E-Mail: David.hawkins@butterworth-labs.co.uk	Chemical Testing A
<b>Address</b> Unit 14 Castle Business Village Station Road Hampton TW12 2BX	<b>Local contact</b> Mr D Hawkins Tel: +44 (0)20 8977 0750 Fax: +44 (0)20 8943 2624 E-Mail: David.hawkins@butterworth-labs.co.uk	Administration Contract Management Project Management 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
ELECTROPLATING, ANODISING and METAL FINISHING SOLUTIONS	<u>Chemical Tests</u>  Aluminium Copper, Iron, Titanium	Documented In-House Methods based on Published (BS, Canning Handbook) and Client Supplied Methods  BLM 187 by ICP-OES	A
HALONS, FIRE EXTINGUISHER MEDIA, REFRIGERANTS, CFC's, and INSULATING MATERIALS	<u>Chemical Tests</u>	Documented In-House Methods based on Published Methods	
Halons HFC-227EA, HFC-236FA, 1211 and 1301	Water	BLM 163 by Coulometric Karl Fischer Titration	A
Halons 1211 and 1301	Acidity	BLM 325 by Titrimetry	A
Halons 1211 and 1301	Non volatile residue, Sediment, Appearance	BLM 389	A
Halons 1211 and 1301	Halogen Ion	BLM 423	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>WATER and ASSOCIATED MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes</p>	<p><u>Chemical Tests</u></p> <p>Metals, specifically: Silver Aluminium Arsenic Boron Barium Bismuth Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Gallium Potassium Indium Lithium Magnesium Manganese Molybdenum Sodium Nickel Lead Palladium Platinum Antimony Selenium Tin Titanium Thallium Vanadium Zinc Zirconium</p>	<p>Documented In-House Methods based on Published Standard (BS, ISO, MEWAM, EPA, DIN, ADAS) Methods</p> <p>BLM 55G by ICP-OES</p>	<p>A</p>



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ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes	<u>Chemical Tests</u>	Documented In-House methods	
	Carbon Hydrogen Nitrogen	BLM 0G by Elemental Analyser	A
ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes	Calorific Value	BLM 84G by Bomb Calorimetry	A
	<u>Chemical Tests</u>	Documented In-House methods	
ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes	Metals, specifically:	BLM 463G by microwave digestion and ICP-OES	A
	Lithium Beryllium Boron Sodium Magnesium Aluminium Potassium Calcium Scandium Titanium Vanadium Chromium Manganese Iron Cobalt Nickel Copper Zinc Arsenic Selenium Rubidium Strontium Molybdenum Ruthenium		



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<p>ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Metals, specifically:</p> <p>Rhodium Palladium Silver Cadmium Indium Tin Antimony Caesium Barium Tungsten Iridium Platinum Gold Mercury Titanium Lead Bismuth</p>	<p>Documented In-House methods</p> <p>BLM 463G by microwave digestion and ICP-OES</p>	<p>A</p>



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<p>AQUEOUS SOLUTIONS derived from pharmaceutical products and/or pharmaceutical manufacturing processes</p>	<p><u>Chemical Tests</u></p> <p>Metals, specifically: Lithium Beryllium Boron Magnesium Aluminium Phosphorus Calcium Scandium Titanium Vanadium Chromium Manganese Iron Cobalt Nickel Copper Zinc Gallium Germanium Arsenic Selenium Rubidium Strontium Yttrium Zirconium Molybdenum Ruthenium Rhodium Palladium Silver Cadmium Indium Tin Tellurium Caesium Barium Lanthanum Cerium</p>	<p>Documented In-House methods</p> <p>BLM 498G by ICP-MS</p>	<p>A</p>



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AQUEOUS SOLUTIONS derived from pharmaceutical products and/or pharmaceutical manufacturing processes	<u>Chemical Tests (cont'd)</u>  Metals, specifically Praseodymium Neodymium Samarium Gadolinium Terbium Dysprosium Holmium Erbium Antimony Ytterbium Lutetium Hafnium Tantalum Tungsten Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Thorium Uranium Thulium	Documented In-House methods  BLM 498G by ICP-MS	A



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ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes	<u>Chemical Tests</u>  Metals, specifically Chromium Manganese Iron Cobalt Nickel Copper Zinc Gallium Germanium Arsenic Selenium Rubidium Strontium Yttrium Molybdenum Ruthenium Rhodium Palladium Silver Cadmium Indium Tin Antimony Tellurium Caesium Tungsten Cerium Praseodymium Neodymium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium	Documented In-House methods  BLM 486G by microwave digestion and ICP-MS	A





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ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes	<u>Chemical Tests (cont'd)</u>  Metals, specifically Lutetium Hafnium Tantalum Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Thorium Uranium Barium Lanthanum	Documented In-House methods  BLM 486G by microwave digestion and ICP-MS	A
END			