

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|---|---|
|  0215 Accredited to ISO/IEC 17025:2017 | Butterworth Laboratories Ltd Issue No: 039 Issue date: 23 January 2025 | |
| | 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 at the above address only | | |

DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| 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 |
| 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 |
| Halons 1211 and 1301 | Acidity | BLM 325 by Titrimetry |
| Halons 1211 and 1301 | Non volatile residue, Sediment, Appearance | BLM 389 |



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| WATER and ASSOCIATED MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes | <u>Chemical Tests</u> 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 | Documented In-House Methods based on Published Standard (BS, ISO, MEWAM, EPA, DIN, ADAS) Methods BLM 55G by ICP-OES |



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| ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes | <u>Chemical Tests</u> Carbon Hydrogen Nitrogen | Documented In-House methods BLM 0G by Elemental Analyser |
| ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes | <u>Chemical Tests</u> Metals, specifically: Lithium Beryllium Boron Sodium Magnesium Aluminium Potassium Calcium Scandium Titanium Vanadium Chromium Manganese Iron Cobalt Nickel Copper Zinc Arsenic Selenium Rubidium Strontium Molybdenum Ruthenium Rhodium Palladium Silver Cadmium Indium Tin Antimony Caesium Barium Tungsten Iridium | Documented In-House methods BLM 463G by microwave digestion and ICP-OES |



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| ORGANIC MATERIALS derived from pharmaceutical products and/or pharmaceutical manufacturing processes (cont'd) | <u>Chemical Tests</u> (cont'd) Metals, specifically: Platinum Gold Mercury Titanium Lead Bismuth | Documented In-House methods BLM 463G by microwave digestion and ICP-OES |
| AQUEOUS SOLUTIONS derived from pharmaceutical products and/or pharmaceutical manufacturing processes | <u>Chemical Tests</u> 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 | Documented In-House methods BLM 498G by ICP-MS |



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| AQUEOUS SOLUTIONS derived from pharmaceutical products and/or pharmaceutical manufacturing processes (cont'd) | <u>Chemical Tests</u> (cont'd) Metals, specifically Cadmium Indium Tin Tellurium Caesium Barium Lanthanum Cerium 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 |



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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 |



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