

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|                                                                                                                                         |                                                                                                        |                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>0012</b><br>Accredited to<br>ISO/IEC 17025:2017 | <b>The Sheffield Assay Office</b><br><br><b>Issue No: 062    Issue date: 22 September 2026</b>         |                                                                                                                                                      |
|                                                                                                                                         | <b>Guardian Hall</b><br><b>Beulah Road</b><br><b>Hillsborough</b><br><b>Sheffield</b><br><b>S6 2AN</b> | <b>Contact: Mr M Hawker</b><br><b>Tel: +44 (0) 114 231 2121</b><br><b>E-Mail: hawkerm@assayoffice.co.uk</b><br><b>Website: www.assayoffice.co.uk</b> |
| 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><br>Guardian Hall<br>Beulah Road<br>Hillsborough<br>Sheffield<br>S6 2AN                              | <b>Local contact</b><br>Mr M Hawker<br>hawkerm@assayoffice.co.uk | Metals Sampling & Analysis<br>Chemical Testing | A             |
| <b>Address</b><br>Sub Office 01<br>Brown & Newirth Ltd<br>Elma House<br>Beaconsfield Close<br>Hatfield<br>AL10 8YG | <b>Local contact</b><br>Mr M Hawker<br>hawkerm@assayoffice.co.uk | Metals Sampling & Analysis                     | 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 |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------|
| METALS and METAL ALLOYS (including PRECIOUS METALS/ ALLOYS) | <u>Chemical Tests for the Purposes of Hallmarking</u>                                                                                                                                                                                            | <u>Documented In-House Methods</u>                     |               |
| Precious metals & alloys                                    | Gold, Silver, Platinum, Palladium                                                                                                                                                                                                                | X-ray Fluorescence Analysis (XRF) ATM 105              | A, B          |
|                                                             | Gold, Silver, Platinum, Palladium                                                                                                                                                                                                                | ICP OES ATM 74                                         | A             |
|                                                             | Gold, Silver                                                                                                                                                                                                                                     | Fire Assay Cupellation ATM 01                          | A             |
|                                                             | Silver                                                                                                                                                                                                                                           | Potentiometric Titration ATM 11                        | A             |
|                                                             | <u>Chemical Tests</u>                                                                                                                                                                                                                            |                                                        |               |
| Precious metal alloys & Powders                             | Gold, Palladium, Platinum, Rhodium                                                                                                                                                                                                               | ICP OES ATM 74                                         | A             |
|                                                             | Silver                                                                                                                                                                                                                                           | Potentiometric Titration ATM 11 ATM 12, ICP OES ATM 12 |               |
|                                                             | Gold, Silver                                                                                                                                                                                                                                     | Fire Assay Cupellation ATM 01                          | A             |
| Precious Metal Powders                                      | Gold, Platinum, Palladium                                                                                                                                                                                                                        | Lead Fusion/Fire Assay/ ICP OES ATM 03                 | A             |
| High Purity Silver                                          | Aluminium, Arsenic, Gold, Bismuth, Cadmium, Cobalt, Chromium, Copper, Iron, Magnesium, Manganese, Nickel, Lead, Palladium, Platinum, Antimony, Selenium, Silicon, Tin, Tellurium, Titanium, Zinc, Boron, Mercury, Iridium, Phosphorus, Ruthenium | ICP OES ATM 79                                         | A             |



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|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|
| METALS and METAL ALLOYS (including PRECIOUS METALS/ ALLOYS) (cont'd) | <u>Chemical Tests</u> (cont'd)                                                                                                                                                                        | Documented in house methods                                        |               |
| Base metals & alloys (e.g. steels)                                   | Aluminium, Boron, Bismuth, Cobalt, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Molybdenum, Niobium, Phosphorus, Silicon, Tin, Tantalum, Titanium, Vanadium, Tungsten, Zinc, Zirconium | ICP OES ATM 150                                                    | A             |
|                                                                      | Carbon Sulphur                                                                                                                                                                                        | Combustion/infra-red Analysis ATM 82                               | A             |
|                                                                      | Silver                                                                                                                                                                                                | Potentiometric titration ATM 11 ATM 12, ICP OES ATM 12             | A             |
| Metals, Metal Alloys, and Metal Powders                              | Nitrogen, Oxygen, & Hydrogen                                                                                                                                                                          | Thermoconductivity and IR absorption using In-house method ATM 149 | A             |
| Copper & Brass alloys                                                | Arsenic, Aluminium, Bismuth, Cadmium, Chromium, Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Lead, Antimony, Silicon, Tin, Titanium, Zinc                                      | ICP OES ATM 101                                                    | A             |
| Aluminium alloys                                                     | Aluminium, Bismuth, Chromium, Copper, Iron, Gallium, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Lead, Antimony, Silicon, Tin, Titanium, Zinc, Zirconium                                       | ICP OES ATM 102                                                    | A             |



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|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------|
| METALS and METAL ALLOYS (including PRECIOUS METALS/ ALLOYS) (cont'd) | <u>Chemical Tests</u> (cont'd)                                                                                                                                                                                                                                                                                                                                                                                                        | Documented In-house methods                        |               |
| Lead/Tin Alloys                                                      | Silver, Aluminium, Arsenic, Gold, Bismuth, Cadmium, Copper, Iron, Indium, Nickel, Lead, Palladium, Antimony, Tin, Zinc                                                                                                                                                                                                                                                                                                                | ICP OES ATM 72                                     | A             |
| Ferrosilicon Alloys                                                  | Aluminium, Barium, Calcium, Chromium, Iron, Magnesium, Manganese, Phosphorus, Silicon, Titanium, Zirconium                                                                                                                                                                                                                                                                                                                            | ICP OES ATM 166                                    | A             |
| Titanium Alloys                                                      | Aluminium, Chromium, Copper, Iron, Molybdenum, Nickel, Niobium, Tantalum, Tin, Titanium, Vanadium, Zirconium                                                                                                                                                                                                                                                                                                                          | ICP OES ATM 167                                    | A             |
| Metal Powers and Turnings                                            | Loss-on-ignition at 120°C, 500°C, and 800°C                                                                                                                                                                                                                                                                                                                                                                                           | Gravimetry ATM 144                                 | A             |
| Metals, Metal Alloys, and Metal Powders                              | Gold, Silver, Platinum, Palladium, Aluminium, Arsenic, Antimony, Boron, Barium, Beryllium, Bismuth, Calcium, Cadmium, Chromium, Copper, Iron, Gallium, Hafnium, Mercury, Indium, Iridium, Lanthanum, Magnesium, Manganese, Molybdenum, Sodium, Niobium, Nickel, Phosphorus, Lead, Rhenium, Rhodium, Ruthenium, Selenium, Silicon, Tin, Tantalum, Tellurium, Thorium, Thallium, Titanium, Vanadium, Tungsten, Yttrium, Zinc, Zirconium | ICP OES ATM 83                                     | A             |



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| Materials/Products tested                                                                                                                 | Type of test/Properties measured/Range of measurement                                                                                                                                                                                                                                                                                                                                                                               | Standard specifications/ Equipment/Techniques used                                                         | Location Code |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------|
| METALS and METAL ALLOYS (including PRECIOUS METALS/ ALLOYS) (cont'd)                                                                      | <u>Chemical Analysis</u>                                                                                                                                                                                                                                                                                                                                                                                                            | Documented In-house methods                                                                                |               |
| Metals in solution (e.g. Plating solutions, tank Washings, process waste)                                                                 | Gold, Silver, Platinum, Palladium, Aluminium, Arsenic, Antimony, Boron, Barium, Beryllium, Bismuth, Calcium, Cadmium, Chromium, Cobalt, Copper, Iron, Gallium, Hafnium, Mercury, Indium, Iridium, Potassium, Lanthanum, Magnesium, Manganese, Molybdenum, Sodium, Niobium, Nickel, Phosphorus, Lead, Rhenium, Rhodium, Ruthenium, Selenium, Silicon, Tin, Thorium, Thallium, Titanium, Vanadium, Tungsten, Yttrium, Zinc, Zirconium | ICP OES ATM 83                                                                                             | A             |
| Metals, metal alloys and Metal powders, metals in Solution (e.g. cell culture Solutions, plating solutions, Tank washings, process Waste) | Antimony, Arsenic, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Hafnium, Indium, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silver Tellurium, Tin, Titanium, Thallium, Thorium, Zinc, Zirconium, Mercury                                                                                                                                                                             | ICP MS ATM 160                                                                                             | A             |
| Jewellery and related Products                                                                                                            | Nickel (releasable)                                                                                                                                                                                                                                                                                                                                                                                                                 | Acid dissolution followed by ICP OES or ICP MS based on BS EN 1811:2023, BS EN 12472:2020 (ATM 87, ATM 89) | A             |



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| METALS and METAL ALLOYS (including PRECIOUS METALS/ ALLOYS) (cont'd)                  | <u>Chemical Tests</u>                                                                    | Documented In-house methods                                                    |               |
| Jewellery and related Products (including children's jewellery and painted jewellery) | Lead, Cadmium                                                                            | 16 CFR part 1303: ATM 134 based on CPSC-CH-E 1001-08:3 using ICP OES or ICP MS | A             |
|                                                                                       | <u>Chemical Tests</u>                                                                    | Documented In-House Methods                                                    |               |
| PAINT                                                                                 | Lead, Cadmium                                                                            | 16 CFR part 1303: ATM 134 based on CPSC-CH-E1003-09.1 ICP OES or ICP MS        | A             |
| BODY FLUIDS                                                                           | <u>Chemical Tests</u>                                                                    |                                                                                |               |
| Urine Samples (human)                                                                 | Mercury, Creatinine                                                                      | ICP-MS and UV-Vis, ATM103                                                      | A             |
| MEDICAL MATERIALS                                                                     | <u>Chemical Tests</u>                                                                    | Documented In-house Methods                                                    |               |
| Alginate Fibres                                                                       | Silver, Arsenic, Cadmium, Cobalt, Copper, Iron, Mercury, Sodium, Nickel, Lead, Tin, Zinc | ICP OES ATM 99                                                                 | A             |
| Medical Materials                                                                     | Silver                                                                                   | ICP OES ATM 106                                                                | A             |
| Silver Migration into Simulated wound fluid                                           | Silver                                                                                   | ICP OES ATM 115                                                                | A             |



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| Precious Metal Alloys & Powders                                           | <b>Flexible Scope Protocol AP10</b><br><br>The laboratory holds a flexible Scope for the appropriate Application of documented in House methods for sampling, Preparation, and Measurement for additional Elements using flexible scope Protocol AP10 for the methods | ICP OES ATM 074                                    | A             |
| Base Metals & Alloys (e.g Steels                                          |                                                                                                                                                                                                                                                                       | ICP OES ATM 150, ATM 101, ATM 102, ATM 72          |               |
| Metals, Metal Alloys, Metal Powders (trace analysis)                      |                                                                                                                                                                                                                                                                       | ICP OES ATM 83<br>ICP MS ATM 160                   |               |
| Metals in Solution (e.g. Plating solutions, tank Washings, process waste) |                                                                                                                                                                                                                                                                       | ICP OES ATM 83<br>ICP OES ATM 160                  |               |
| Alginate Fibres & Medical Materials                                       |                                                                                                                                                                                                                                                                       | ICP OES ATM 99<br>ICP OES ATM 106                  |               |
| END                                                                       |                                                                                                                                                                                                                                                                       |                                                    |               |