


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 0003</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>LGC Limited</p> <p>Issue No: 182 Issue date: 22 April 2026</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
<p>BODY FLUIDS and TISSUES</p> <p>Saliva</p> <ul style="list-style-type: none"> - Swabs (buccal cells) - FTA cards <p>Bone Teeth</p> <p>Synthetic DNA or DNA extracted Bacterial, Mammalian, Plant/crop, Plasmid and Viral sources in solution</p> <p>Genomic DNA</p>	<p><u>Relationship Analysis</u></p> <p>Y Chromosome Short Tandem Repeat (STR) DNA profiling for paternal lineage testing</p> <p><u>Related Opinions and Interpretation</u></p> <p>Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases</p> <p>Quantification on extracted DNA (8-80000 copies)</p> <p>Quantification of HER2 copy number concentrate (CNC) and copy number variation (CNV)</p> <p>Quantification in extracted human genomic DNA: gDNA Range: 8-80,000 copies of HER2, with a HER2 copy number variation (CNV) measurement range of 1.0 to 40</p>	<p>Documented In-House Methods using:</p> <p>Manual extraction</p> <ul style="list-style-type: none"> • Qiagen (DNA/SOP-037) • Qiagen Maxi kit (DNA/SOP-036) <p>Manual amplification (DNA/SOP-024) and the following chemistry:</p> <ul style="list-style-type: none"> • Y23 <p>Electrophoresis Spectrum Compact (DNA/SOP 041)</p> <p>Genetic Characterisation - GeneMarker HID (DNA/SOP 042) YHRD (DNA/SOP029)</p> <p>Flexible scope protocol MOLDIGI SOP007 using Bio-rad QX200 droplet digital PCR</p> <p>Protocols: MOLDIGI 009 using BioRad QX200 droplet generator, C1000 thermal cycler, QX200 droplet reader, QuantaSoft (BioRad v 1.7.4.0917) and QX Manager software (Biorad v 2.1.0.25)</p>



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FOODS/FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods using:
Food and food products	Ash	Heating and gravimetry (FFF/B1-0005)
Food and food products	Nitrogen	DUMAS combustion followed by thermal conductivity detection (FCS-021)
Food and food products	Mycotoxins including Aflatoxins B1, B2, G1, G2 Total aflatoxins	FFF/A1-0315 using ultra-performance liquid chromatography (UPLC) and fluorescence detection (FCS-029)
FOODS/FOOD PRODUCTS /ANIMAL FEED	Analysis and related opinions and interpretation for the purpose of meeting the requirements for referee analysis	Methods developed using instrumentation listed below following the Flexible Scope protocol CP/WI-001: Referee Analysis of Food and Agricultural Samples, in association with methods and techniques in line with appropriate legislation. <ul style="list-style-type: none"> • Gravimetric • HPLC-Fluorescence • HPLC-UV • Real-Time PCR • Digital PCR • ICP-OES • ICP-MS • IDMS (GC-MS, GC-MS/MS, LC-MS, LC-MS/MS)
Ground samples of soya, oil seed rape and cereal based food and feed materials	*Identification and quantification of GM events *Indicates examination performed under Food Standards Agency designation as a <u>National Reference Laboratory in accordance with assimilated European law AEUL OCR 2017/625</u>	GMO testing using methods based on the JRC GMO methods database of reference methods for GMO analysis and verified under flexible scope protocol MOLBIO/SOP-004, employing automated CTAB extraction using Maxwell® RSC system (MOLBIO/SOP-008) followed by Applied Biosystems™ QuantStudio™ 7 Flex Real-Time PCR System, (MOLBIO/SOP-007)



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<p>ORGANIC MATRICES INCLUDING FOOD/FOOD PRODUCTS</p> <p>Alcoholic Beverages (Wines, Beers and Spirits)</p> <p>ORGANIC/INORGANIC MATRICES INCLUDING FOODS/FOOD PRODUCTS</p> <p>Food/food products, organic and inorganic matrices, clinical samples.</p> <ul style="list-style-type: none"> - Aqueous solutions - Digests - Extracts - Leachates - Natural and treated waters - Aqueous solutions - Effluents 	<p><u>Chemical Tests</u> (cont'd)</p> <p>Alcoholic strength</p> <p>Metals, nutritional elements, trace elements, acid soluble trace elements <u>including</u>:</p> <ul style="list-style-type: none"> • aluminium, • arsenic, • boron, • barium, • cadmium, • cobalt, • chromium, • copper, • iron, • mercury, • manganese, • nickel, • lead, • sulfur, • antimony, • selenium, • tin, • strontium, • vanadium, • zinc, • silver, • iodine, • molybdenum, • uranium 	<p>Density (FFF/B1-1006)</p> <p>Documented in-house methods by Flexible Scope Protocol SOP-INORG-0011 using:</p> <ul style="list-style-type: none"> • Microwave digestion (SOP-INORG 0004) as required and • ICP-MS (SOP-INORG-0010)



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<p>ORGANIC/INORGANIC MATRICES INCLUDING FOODS/FOOD PRODUCTS (cont'd)</p> <p>Natural and treated waters</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Metals, nutritional elements, trace elements, acid soluble trace elements, including:</p> <ul style="list-style-type: none"> • Aluminium • Antimony • Arsenic • Barium • Beryllium • Boron • Cadmium • Chromium • Cobalt • Copper • Iron • Lead • Lithium • Manganese • Mercury • Molybdenum • Nickel • Selenium • Silver • Strontium • Tin • Vanadium • Zinc 	<p>Documented in-house methods by SOP-INORG-007 using:</p> <ul style="list-style-type: none"> - ICPMS
<p>REFERENCE MATERIALS</p>	<p><u>Chemical Tests</u></p> <p>Inorganic Analytes</p>	<p>Documented In-House Methods:</p> <p>Flexible Scope Protocols FFF/B1-1031 using:</p> <ul style="list-style-type: none"> • Microwave digestion (SOP-INORG-0004) as required and • Inorganic High Accuracy IDMS by ICP-MS (SOP-INORG-0010), or • ICP-TOF-MS (SOP-INORG-0001)



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<p>PHARMACEUTICALS</p> <p>Oral solid preparations - tablets and capsules</p> <p>Medicinal and pharmaceutical substances used in the preparation of pharmaceutical products.</p> <p>Formulated preparations:</p> <ul style="list-style-type: none"> - Oral solid preparation (tablets and capsules) - Oral liquid preparations - Parenteral preparations - Topical liquid preparations - Topical solid preparations - Herbal preparations 	<p><u>Chemical Tests</u> (cont'd)</p> <p>Determination of dissolution of tablets and capsules</p> <p>Identification of 'active' and 'non-active' ingredients and related impurities</p>	<p>Specifications and methods detailed in the current British Pharmacopoeia (BP) apparatus 1 and 2 and manufacturer's licenced methods, using:</p> <ul style="list-style-type: none"> • Assay by UV spectroscopy • LC -UV (BP-MHRA/SOP/021) <p>Specifications and methods detailed in the current British Pharmacopoeia (BP), manufacturer's licenced methods or in-house methods developed with protocol BP-MHRA/QAD/008 using:</p> <ul style="list-style-type: none"> • IR Spectroscopy • UV spectroscopy • Thin Layer Chromatography • LC (detection by UV photodiode array, fluorescence, Refractive Index, MS) • GC-MS



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<p>PHARMACEUTICALS (cont'd)</p> <p>Medicinal and pharmaceutical substances used in the preparation of pharmaceutical products.</p> <p>Formulated preparations:</p> <ul style="list-style-type: none"> - Oral solid preparation (tablets and capsules) - Oral liquid preparations - Parenteral preparations - Topical liquid preparations - Topical solid preparations - Herbal preparations 	<p><u>Chemical Tests</u> (cont'd)</p> <p>Assay of 'active' and 'non-active' ingredients and related impurities</p>	<p>Specifications and methods detailed in the current British Pharmacopoeia (BP), manufacturer's licenced methods or in-house methods developed with protocol BP-MHRA/QAD/008 using:</p> <ul style="list-style-type: none"> • UV spectroscopy • Thin Layer Chromatography • LC detection by: <ul style="list-style-type: none"> ○ UV, ○ fluorescence, ○ refractive index, ○ MS • (Headspace) GC detection by <ul style="list-style-type: none"> ○ FID or ○ MS) • Potentiometric and colorimetric titration • Karl Fischer titration • Loss On Drying • Oven sample processor and Karl Fischer coulometer to BP-MHRA/SOP/51 • Density using Density Meter for the determination of density of solutions (BP-MHRA/SOP/033)
<p>Medicinal and pharmaceutical substances used in the preparation of pharmaceutical products</p>	<p>Volatile Organic compounds</p>	<p>Using:</p> <ul style="list-style-type: none"> • Headspace GC-MS and FID (BP-MHRA/SOP/027)
<p>Oral solid preparation (tablets and capsules)</p>	<p>Verification of authenticity</p>	<p>Using:</p> <ul style="list-style-type: none"> • Near infra-red (NIR) spectroscopy with visual comparison of spectra and principal component analysis (BP-MHRA/SOP/023)



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<p>PHARMACEUTICALS (cont'd)</p> <p>Formulated preparations: Oral solid preparation (tablets and capsules) Oral liquid preparations Parenteral preparations Topical liquid preparations Topical solid preparations</p> <p>Formulated preparations: Oral liquid preparations Parenteral preparations Topical liquid preparations</p> <p>British Pharmacopoeia Chemical Reference Substances (BPCRS)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Uniformity of content, weight and dosage</p> <p>pH</p> <p>Identification, Assay and % Declared Content of 'active' and 'non-active' ingredients and related impurities</p>	<p>Specifications and methods detailed in the current British Pharmacopoeia (BP), manufacturer's licenced and in-house methods Conformity - BP-MHRA/SOP/020 using:</p> <ul style="list-style-type: none"> • UV spectroscopy • LC-UV • Gravimetry • Volumetry <p>Using:</p> <ul style="list-style-type: none"> • Potentiometry (BP-MHRA/SOP/012) <p>Using specifications and methods detailed in the current British Pharmacopoeia (BP), developed with protocol BP-MHRA/QAD/008 using techniques:</p> <ul style="list-style-type: none"> • LC detection by <ul style="list-style-type: none"> ○ UV, ○ Refractive Index, ○ Fluorescence, or ○ MS • (Headspace) GC detection by <ul style="list-style-type: none"> ○ FID or ○ mass spectrometry • Thin Layer Chromatography • Karl Fischer • UV-VIS, • Titrimetry, • Loss on drying • FTIR

END