


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>1994 Accredited to ISO/IEC 17025:2017</p>	<h3>Glass Technology Services Ltd</h3> <p>Issue No: 063 Issue date: 19 September 2025</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
GLASS and GLASS PRODUCTS	<u>Chemical Tests</u>	
	Lead and Cadmium release from glass surface	Documented In-House Method QP16 using atomic absorption spectrometry and ICP-OES techniques based on ISO 7086-1:2019 ISO 7086-2:2000 BS 6748:1986 + A1:2011 BS EN 1388-2:1996 ASTM C927-80(2019) AOAC - 973.32 (2004)
	Quantification of elements/oxides	Documented In-House Method QP08 using X-ray Fluorescence (XRF) technique
	Silica (SiO ₂) Aluminium Oxide (Al ₂ O ₃) Iron (III) Oxide (Fe ₂ O ₃) Calcium Oxide (CaO) Magnesium Oxide (MgO) Sodium Oxide (Na ₂ O) Potassium Oxide (K ₂ O) Titanium Dioxide (TiO ₂) Zirconium Dioxide (ZrO ₂) Chromium (III) Oxide (Cr ₂ O ₃) Sulphur Trioxide (SO ₃)	
	Loss on drying and Loss on Ignition	Documented In-House Method QP10
	Hydrolytic resistance of glass containers for pharmaceutical use	Documented In-House Method, QP15 based on USP NF 2025 Issue 3 chapter 660 European Pharmacopoeia Ph.Eur. Ed.12.1 method 3.2.1
	Imaging identification and comparative analysis	Documented In-House Method QP07 using SEM Techniques, including EDX analysis



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<p>GLASS and GLASS PRODUCTS (cont'd)</p> <p>GLASS MAKING MINERALS (eg sand, limestone, dolomite, cullet, feldspar, blast furnace slag, nepheline syenite, synthetic diopside, alumina and aluminosilicate refractories)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Elemental/Oxide Analysis</p> <p>Sodium Oxide (Na₂O)</p> <p>Magnesium Oxide (MgO)</p> <p>Aluminium Oxide (Al₂O₃)</p> <p>Silica (SiO₂)</p> <p>Phosphorus Pentoxide (P₂O₅)</p> <p>Potassium Oxide (K₂O)</p> <p>Calcium Oxide (CaO)</p> <p>Titanium Dioxide (TiO₂)</p> <p>Manganese Oxide (MnO)</p> <p>Chromium (III) Oxide (Cr₂O₃)</p> <p>Strontium Oxide (SrO)</p> <p>Iron (III) Oxide (Fe₂O₃)</p> <p>Barium Oxide (BaO)</p>	<p>Documented In-House Method QP09 quantification of elements/oxides using X-ray fluorescence techniques (XRF)</p>



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GLASSWARE PRODUCTS including STOPPERS and CAPS	<u>Dimensional Tests</u>	
	Length 0 to 300 mm	Documented In-House Method QP32 using optical profile methods
		Documented In-House Method QP02 - Appendix 1A using a micrometer
		Documented In-House Method QP02 - Appendix 1D using a digital depth gauge
		Documented In-House Method QP02 - Appendix 1G using a height gauge
		Documented In-House Method QP02 - Appendix 1B using vernier callipers
	Thickness 0 to 9 mm,	Documented In-House Method QP02 - Appendix 1E using the Hall effect thickness gauge
		Documented In-House Method QP02 - Appendix 1F using the ultrasonic thickness gauge
	Verticality 0 to 10 mm	Documented In-House Method QP49 based on BS EN 29008:1994
	Angle 0° to 360°	Documented In-House Method QP32 using non-contact measurement
	Sample Mass up to 4kg	Documented In-House Method QP01



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GLASS PRODUCTS (cont'd)	<u>Volumetric Tests</u> Volumetric capacity	Documented In-House Method QP48 based on TEC6 (May 2022)
GLASS PRODUCTS (cont'd)	<u>Physical Tests</u> Thermal shock (Glassware) Thermal shock (Containers) Strain characteristics Glass failure analysis Fragment analysis of glass	Documented In-House Method QP33 based on BS EN 1183:1997 ASTM C149-14 BS EN ISO 7459 (2004) Documented In-House Method QP17 based on ASTM C148 17 using an illumination field >300 cdm-2 Documented In-House Method QP18
Sodium Carbonate	Total alkalinity <u>Mechanical Tests</u> Resistance to Vertical Load (Compression)	BS 6070-1:1981(2017) ISO 740:1976 BS EN ISO 8113:2004 Documented In-House Method QP39



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GLASS PRODUCTS (cont'd)	Impact testing of glass Pressure testing of glass	Documented In-House Method QP19 Documented In-House Method QP20 based on ASTM C147-86(2015)
GLASS and GLASS PRODUCTS GLASS/NON POROUS MATERIAL	<u>Physical Tests</u> Density by buoyancy	Documented In-House Method QP66 based on ASTM C693-93(2019)
END		