


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4001 Accredited to ISO 17034:2016	Starna Scientific Ltd	
	Issue No: 016	Issue date: 14 June 2024
	52/54 Fowler Road Hainault Essex IG6 3UT	Contact: Alan Wakelin Tel: +44 (0) 20 8500 1264 Fax: +44 (0) 20 8500 1955 E-Mail: CRM.Certs@starna.com Website: www.starna.com
Reference material production at the above address		

Flexible Scope

The reference material producer is recognised as competent to modify, develop and produce any reference material within the scope of the areas of competence covered by the general scope and according to and described in the controlled Company Confidential internal procedures. The exhaustive list of reference materials covered under accreditation is maintained by, and available from, the reference material producer.

Information about flexible scopes of accreditation is available in UKAS document GEN 4

DETAIL OF ACCREDITATION

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique	Type* (CRM / RM)
<u>Reference Materials with Optical Properties</u> Holmium Oxide Solutions Didymium Solutions Samarium Solutions Rare Earth Oxide Solutions Inorganic Salt Stray Light Solutions Holmium Glass Filters Didymium Glass Filters Mixed Earth Oxide Glass Filters Organic Matrix Solutions Organic Matrix Solutions	 Wavelength (at specific spectral bandwidths) Derivative Ratio at Specified wavelengths	 Measurement by a single, primary, definitive method at Starna Scientific (UV/Vis/NIR Spectrometry) Measurement by a single, primary, definitive method at Starna Scientific (UV/Vis/NIR Spectrometry)	 CRM and RM CRM and RM



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Potassium Dichromate Solutions Neutral Density Filters Nicotinic Acid Organic Matrix Solutions Neutral Density Metal-on-Quartz Filters Polystyrene film	Visible, Ultraviolet and NIR Absorbance/Transmittance (at specific wavelengths) Wavelength	Measurement by a single, primary, definitive method at Starna Scientific (UV/Vis/NIR Spectrometry) Measurement by a single, primary, definitive method at Starna Scientific (IR Spectrometry)	CRM CRM CRM
Sealed Solution Cells containing Quinine Sulfate Sealed solution cells containing suitable fluorescent liquid Solid State polymer, glass or ceramic substrates containing suitable fluorescent material	Corrected Emission Spectrum (relative fluorescence intensity at a series of specific wavelengths)	Measurement by a single, primary, definitive method at Starna Scientific (Fluorescence Spectrometry)	CRM and RM
Sealed Solution Cells containing Quinine Sulfate Sealed solution cells containing suitable fluorescent liquid Solid State polymer, glass or ceramic substrates containing suitable fluorescent material	Relative Fluorescence Intensity Series (relative fluorescence intensity of two or more similar materials in a specified set)	Measurement by a single, primary, definitive method at Starna Scientific (Fluorescence Spectrometry)	CRM and RM
Ultra-High Purity water	Relative Fluorescence intensities used to calculate Raman s/n ratio	Measurement by a single, primary, definitive method at Starna Scientific (UV/Vis/NIR Spectrometry)	CRM and RM



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High Purity Cyclohexane	Raman Shift wavelength	Measurement by a single, primary, definitive method at Starna Scientific (NIR Spectrometry)	CRM and RM
Sealed Solution Cells containing an Optically Active Molecule / Complex	Circular Dichroism (spectrum as a continuous function of wavelength, at specific spectral bandwidths) Circular Dichroism at specific wavelengths	Measurement by a single, primary, definitive method at Starna Scientific (Circular Dichroism Spectrometry)	CRM and RM
Other UV/Vis/NIR reference solutions (The organization holds a flexible scope for the characterisation of suitable materials)	Absorbance	Measurement by a single, primary, definitive method at Starna Scientific (UV/Vis/NIR Spectrometry)	CRM
Other UV/Vis/NIR reference solutions (The organisation holds a flexible scope for the characterisation of suitable materials)	Relative Fluorescence intensities	Measurement by a single, primary, definitive method at Starna Scientific (UV/Vis/NIR Spectrometry)	CRM and RM
END			

***Type**

CRM = Certified Reference Material(s)

RM = Reference Material(s)

Refer to ISO 17034 for full definitions