



Starna scientific
'Setting the Standard'

Quality Assurance in the Analytical Laboratory

UV and Visible Plate Reader Qualification

Filter Visible Plate Reader References

Purpose

This reference uses Starna's proven and universally accepted UV and visible reference materials for the qualification of 96-well plate readers.

Description

This device contains six Starna glass filter CRMs in a black anodised aluminium microplate, manufactured to the Society of Biomolecular Screening (SBS) dimensional standards for a 96-well plate. Neutral Density Filters are used to qualify the absorbance scale and holmium oxide glass for wavelength. Full details, spectra, etc. of the individual reference materials may be found in the appropriate Starna data sheets.

The standard product has the following configuration of reference position and CRM:

Position	Reference
C2 - H2	Air blank
C4 - H4	Neutral Density Glass - 30%/T (0.5 Absorbance)
C6 - H6	Neutral Density Glass - 10%/T (1.0 Absorbance)
C8 - H8	Neutral Density Glass - 3%/T (1.5 Absorbance)
C10 - H10	Neutral Density Glass - 1%/T (2.0 Absorbance)
C12 - H12	Holmium Glass

Absorbance values are certified at 440, 465, 546.1, 590 and 635nm for the neutral density filters.

The holmium filter has 11 certified peak values between 240 nm to 640 nm.

Any standard format Starna solid filter CRM is available in the Starna microplate format.

Certification and Documentation

A Certificate of Calibration and Traceability and full instructions for use are provided with each Reference Material. The certificate is supplied in electronic format, on a USB drive in the same box as the references, allowing hard copy to be produced on demand and giving easy interface to the user's own IT systems. Certification measurements are made on a reference spectrophotometer that has been qualified using Standard Reference Materials certified by

How to Order



the National Institute of Standards and Technology (NIST) in the USA, or against primary physical references such as elemental emission lines.

Accreditation

Starna Scientific is accredited to both ISO 17034 as a Reference Material producer, and ISO/IEC 17025 as a Calibration Laboratory for optical reference measurements. Starna Scientific's manufacturing facility is accredited to the ISO 9001 Quality Management System with BSI. For details see www.starna.com/accreditations.

Warranty

STARNA offers a Lifetime Guarantee on all Starna reference materials, unless otherwise stated, such that any reference material that moves outside its published uncertainty budget will be replaced free of charge. This guarantee is subject to the reference materials being re-certified at least every two years and that the references have not been physically, thermally or optically abused. The STARNA UKAS accredited calibration laboratory aims to re-certify and despatch references within five working days from receipt.

CATALOGUE
NUMBER

Filter Visible Plate Reader Reference

RMMR-1N3NN1N3HG