

Spectrophotometers

Spectrophotometer Calibration Standards

Allow the performance and accuracy of spectrophotometers to be confirmed at regular intervals in compliance with Good Laboratory Practice (GLP) or ISO9000 to ISO9004 specifications.

- Accuracy can be checked with respect to:
 - Absorbance in the Visible range at 440nm, 465nm, 546nm, 590nm and 635nm wavelengths
 - Wavelength in the UV and visible range at 279.3nm, 360.9nm, 453.5nm, 536.3nm and 637.6nm

The set comprises four secondary calibration standard filters, housed in precision aluminium mounts designed for use with standard 10mm path length cell holders supplied with most spectrophotometers. An empty mount is also supplied. Three filters are grey glass, specially selected for homogeneity, stability and their generally uniform transmission values within the visible spectrum range. The fourth filter is made of silica doped with holmium oxide which exhibits a number of sharp absorption peaks throughout the UV, visible and NIR spectral ranges. The exact positions of these peaks vary slightly from production batch to batch therefore each filter is individually calibrated.

Spectrophotometer Calibration Standards

As described. Supplied in a plastic box with certificate traceable to a primary standards set ratified by NIST, USA (National Institute of Standards and Technology). Each filter has dimensions 45 x 12.5 x 12.5mm H x W x D.

SJ700-90 Spectrophotometer standards set

Individual filters and filter re-calibration are available – *details on request*.

Precision Cells Hellma®

Transmissions: Optical glass 360 to 2500nm code yellow (y)
Special optical glass 320 to 2500nm code green (g)
Silica UV 200 to 2500nm code blue (b)

	Path length mm	Type	Material	Ref.
CA429-14	10	Micro with stopper	silica (b)	115-QG
CA430-14	10	Semi micro	glass (y)	104-TG
CA430-44	10	with lid	silica (b)	104-QG
CA432-14	10	Semi micro with lid. Self masking with black frames	silica (b)	104B-OS
CA436-44	10	Semi micro with stopper. Self masking with black frames	silica (b)	114B-QS
CA450-14	10	Macro with lid	glass (y)	100-TG
CA450-44	10	Macro with lid	silica (b)	100-QG
CA450-48	40			
CA450-54	10	Macro with lid	Suprasil® silica (b)	100-QS
CA452-44	10	stopper	silica (b)	110-QG
CA454-44	10	with lid	silica (b)	101-QG
CA458-44	10	Macro fluorescence with stopper	silica (b)	111-QG

Matched pairs. Supplied as a matched pair of precision cells.

	Path length mm	Type	Material	Ref.
CA470-44	10	Semi micro with lid	silica (b)	104-QG/M
CA490-44	10	Macro with lid	silica (b)	100-QG/M
CA492-44	10	Macro with stopper	silica (b)	110-QG/M
CA494-44	10	Macro fluorescence with lid	silica (b)	101-QG/M



SJ700-90

