

The SSUV300
In Vitro Sunscreen Spectrophotometer

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Turnkey solution performing detailed analysis of UV transmittance in thin film sunscreen, centred on the high-performance DTMc300 double monochromator

The SSUV300 boasts numerous advantages in the performance of accurate measurement of UV absorbance of thin film sunscreen samples.

Including a dual monochromator based spectrophotometer, a simple magnetic PMMA plate carrier and integrating sphere collection of transmitted light, accurate measurements in accordance with international standards is ensured.

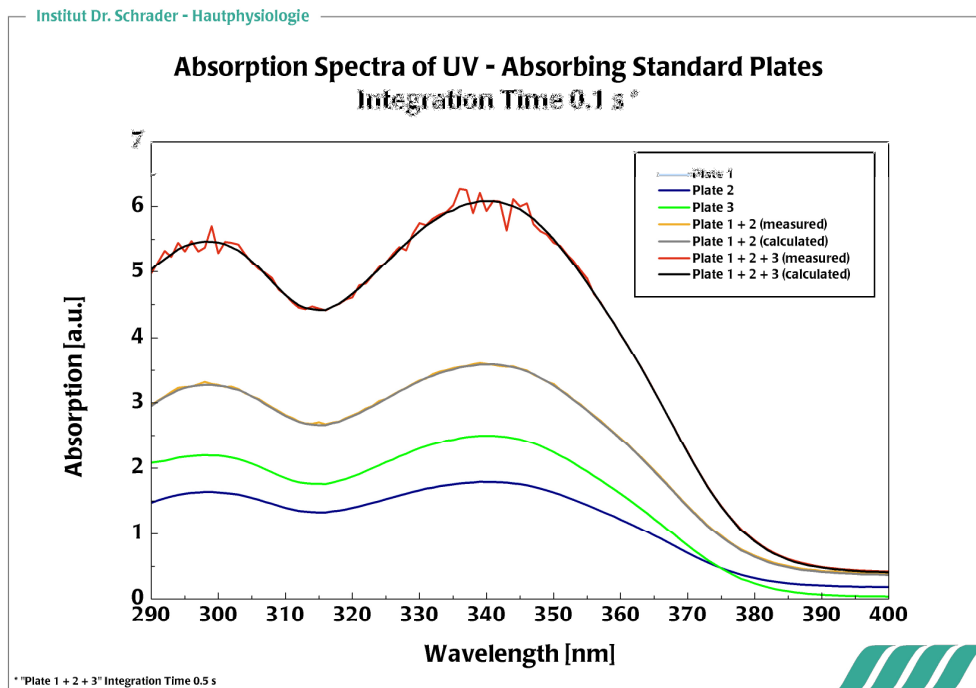
The challenging measurement of sunscreen products, including high absorbance, fluorescing samples and diffuse transmission properties are fully taken account of in the design of the SSUV300.

Core Benefits

- Measure absorbance down to 6 OD
- Avoid incorrect results due to fluorescence
- Easy to use
- Accurate and repeatable measurements

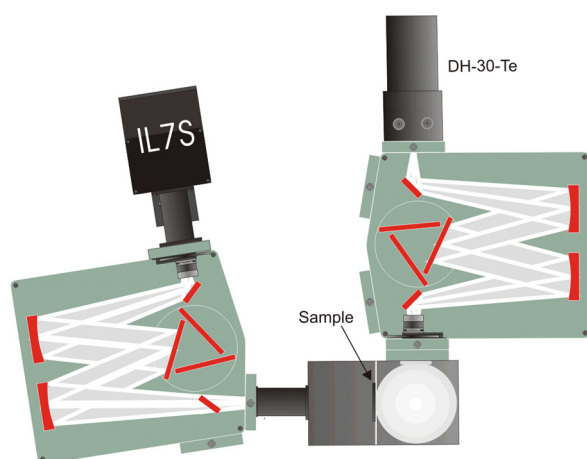
Features

- Split double monochromator configuration
- Monochromatic sample illumination (290-400nm)
- Integrating sphere collection of transmitted light
- Monochromator detection (290-400nm)
- Fully automated and reporting of results



Measurement result courtesy of Institut Dr Schrader, Holzminden, Germany

Measurement	
Spectral range of operation	290-400nm
Bandwidth	1nm
Wavelength accuracy	± 0.1nm (2400g/mm)
Beam diameter at sample plane	4mm diameter
Measured absorbance range	0-6 OD
PMMA plate dimensions	5x5mm
Bench space required	1m deep x 2.5m wide
Services requirements	5 x main sockets 1200W power consumption
Monochromatic Probe Source	
UV source	150W short-arc xenon lamp
Monochromator configuration	Symmetric, single Czerny-Turner
Monochromator focal length	2 x 300mm
Diffraction Gratings	2400 g/mm
Dispersion	5.4nm/mm (2400g/mm)
Wavelength accuracy	± 0.1nm (2400g/mm)
Beam diameter at sample plan	4mm diameter
Computer Requirements	
OS	Windows 7, Windows 8 (32-/64-bit) operating systems (or newer)
Software control	BenWin+ Spectral acquisition software
Minimum hard disk space	Approx. 100MB
Minimum RAM	2 GB
Interface	4 x USB 2.0 ports



References
ISO 24443:2012
EN ISO 24443:2012
AS/NZS 2604:2012
FDA, Final Rule 2011

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