

Automated Performance Verification

CertiRef™ and LinSet™



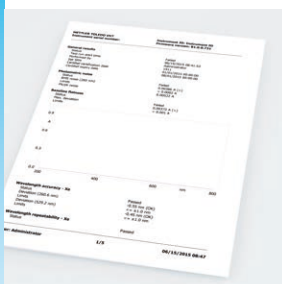
Regulatory compliance

With regular performance verification you can always be sure that your instrument is working properly and that your results are accurate and reliable. The performance verification tests are US and European Pharmacopeia compliant and include photometric accuracy, photometric linearity, wavelength accuracy, resolution and stray light.



Error-free evaluation

All nominal data required for evaluation are electronically stored on the CertiRef module and are automatically compared to the test results. User calculations, manual data entry from certificates, and therefore the risk of error are completely eliminated.



Automatic report generation

At the end of the verification test, a detailed report of all results is generated, including evaluation and comparison with test acceptance criteria as required by Pharmacopeia. The report can be printed or electronically exported. For comparison with previous test results, the test history includes all relevant data and allows a trend analysis.



Easy installation and use

The Plug & Play modules is easily installed in seconds. The instrument automatically recognizes the module, retrieves all certification data and is immediately ready to start the performance verification method. The module can remain mounted on the instrument during routine measurements, or can be easily removed for use on other instruments.



Automatic Performance Verification with CertiRef™ and LinSet™

For UV7, UV5 and UV5Bio Spectrophotometers

With increasing demands for time-consuming performance verification in regulated laboratories, the CertiRef and LinSet modules offer a fully automated Pharmacopeia-compliant solution. The performance checks are easily started with One Click™ and are automatically carried out using certified reference materials. All certificate data are securely stored on the modules, test results are automatically evaluated and a comprehensive report is generated. Precious time is saved and errors due to manual analysis are avoided.

The performance verification modules offer many advantages for performance verification:

- Regulatory compliance
- Error-free evaluation
- Ensured data integrity
- Automatic report generation
- Easy installation and use

CertiRef™ and LinSet™ Specifications

- All CRMs are traceable to the National Institute of Standards and Technology (NIST) primary standards. They are manufactured within an environment which is UKAS accredited to ISO Guide 34 (4001) and ISO 17025 (0659).
- The CRMs in the modules can be re-certified. The recommended re-certification period depends on the CRM type and varies between one and two years.
- The CRM certificates are electronically stored on the modules and also on an accompanying USB stick.
- The CertiRef and LinSet configurations comply with the latest editions of the Ph. Eur. and USP. For more information visit:

► www.mt.com/UV-VIS-Pharmacopeia

Performance tests and certified reference materials of all CertiRef and LinSet configurations

	Reference Material	CertiRef EUP	CertiRef USP
Photometric noise Photometric drift Wavelength accuracy with internal Xenon lamp Wavelength repeatability with internal Xenon lamp Baseline flatness	(air)	•	•
Resolution	Hexane blank	•	•
	Toluene in hexane	•	•
Wavelength accuracy Wavelength repeatability	Holmium oxide	•	•
Photometric accuracy UV Photometric repeatability UV	Perchloric acid blank	•	•
	Potassium dichromate 60 mg/L	•	•
	Hydrochloric acid blank	•	
	Nicotinic acid 12 mg/L	•	
Stray light Ph. Eur.	Water blank	•	
	Potassium chloride	•	
Stray light USP	Potassium chloride 0.5 cm		•
	Potassium chloride 1.0 cm		•



Inside CertiRef
Sealed liquid certified reference material (CRM) cuvettes

	Reference Material	LinSet PDC	LinSet Niacin
Photometric linearity UV	Perchloric acid blank		
	Potassium dichromate 40 mg/L	•	
	Potassium dichromate 80 mg/L		
	Potassium dichromate 140 mg/L		
	Hydrochloric acid blank		
	Nicotinic acid 6 mg/L		•
	Nicotinic acid 18 mg/L		
	Nicotinic acid 36 mg/L		
Photometric linearity Vis	Clear glass blank		
	Neutral density filter 0.5 A	•	•
	Neutral density filter 1.0 A		
	Neutral density filter 2.0 A		
Photometric accuracy Vis Photometric repeatability Vis	Clear glass blank	•	•
	Neutral density filter 0.5 A		



Inside LinSet
Sealed liquid CRM cuvettes and solid certified neutral density filter



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