

PATsmart™ ConfiRM® Slope Reference Materials

Product Specifications

Specification Sheet

Part ID: **MRM-05-P10** (LOW)

MRM-07-P10 (MID)

MRM-01-P10 (HIGH)

MRM-08-P10 (ULTRA HIGH)

Overview

PATsmart™ ConfiRM® Slope Reference Materials are the only certified reference standard, traceable by the National Institute of Standards and Technology (NIST), and developed specifically for variable pathlength spectrometers, such as the PATsmart™ SoloVPE® PLUS and FlowVPX® Systems.

ConfiRM slope reference materials come with NIST-traceable, ISO Guide 34-certified slope and uncertainty values that can be used to verify system health, suitability, and performance. The certified values are established in the same units measured by variable pathlength instruments, making slope reference materials preferable over standards based on absolute absorbance or concentration.

This caffeine-based standard is available in a 10-pack of convenient, single-use ampules and has a two-year shelf life from date of manufacture. The ConfiRM slope reference materials line includes Low, Mid, High, and Ultra High slope standards.

Have a specific sample or project? We may be able to customize a slope standard to match your specific product or method! Contact Repligen analytical support for more information about custom slope reference materials (minimums apply).



Specifications

Standard Type	Certified slope reference materials			
Applicable Standards	Slope reference materials prepared and certified under ISO 9001, ISO 17025, and ISO 17034			
Certified Wavelength	272 nm			
Package Form Factor	1 mL sealed amber glass ampules			
Shelf Life	2 years from date of manufacture			
NIST-Traceable Certified Values	ConfiRM Low	ConfiRM Mid	ConfiRM High	ConfiRM Ultra High
Slope* (Abs/mm)	0.1	0.14	23	46
Uncertainty	±4.0%	±4.0%	±4.5%	±4.5%

*Actual slope values vary from lot to lot. Always refer to the individual reference material for the certified value.

Properties

Physical Characteristics	Clear, odorless liquid		
Chemical Characterization	Component ID/CAS#	Description	
Mixture	58-08-2	Caffeine	
	7732-18-5	Water, distilled	
Hazard Ratings	Health	Fire	Reactivity
NFPA	0	0	0
HMIS	0	0	0
Toxicity	Non-toxic		

More information

Final application suitability of all materials and ratings are the sole responsibility of the user. Specified pressure and temperature ratings may be subject to limitations. Contact a Repligen analytical representative for more information.

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