

SEDEXTM 100LT FOR HIGH PERFORMANCE AND HIGH THROUGHPUT





Wide choice of nebulizers to fit your application



New Generation design for lowtemperature evaporation and better universality





Drivers available for most of chromatographic software for easy integration and total control

The SEDEX Model 100LT Low-Temperature Evaporative Light-Scattering Detector for conventional HPLC, U-HPLC and SFC allows for the detection of essentially all compounds: detection is based on a universal property of all analytes and does not require the presence of a chromophoric group, electroactive group, etc.

The SEDEX Model 100LT combines the highest sensitivity, reliability, and accuracy for your analyses compared to all other aerosol-based detectors, thanks to unrivalled SEDERElow-temperature technology.

This detector presents a number of outstanding innovations thereby providing the best optical and electronic benefits at a reasonable price. The SEDEX Model 100LT can be connected to any HPLC or SFC system, and you can control the detector locally or via a PC for a fully integrated system using a broad range of SEDEX drivers.

A remote shut down mode is also provided to minimize cost and enhance system lifetime. Full SOP protocols are provided for GLP compliance and validation procedures.

 \bowtie info@sedere.com

Tel: +33 (0)2 38 66 84 47 ≫ Fax: +33 (0)2 38 56 46 85

Parc du Moulin, 841 bd Duhamel du Monceau 45160 Olivet - FRANCE



sedere

SENSITIVITY FLEXIBILITY EXPERIENCE

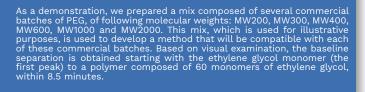
SEDERE IS COMMITED TO USER SATISFACTION WITH EVERY SEDEX DETECTOR

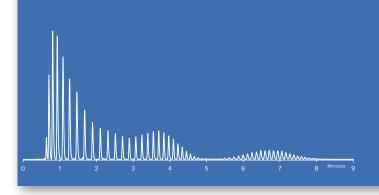


APPLICATION

Polyethylene glycol (PEG) is a substance with a wide range of uses in many industries: For example, it is used as a thickening agent, a conservation agent, a solvent, a component in cosmetic preparations and even as a laxative agent.

Evaporative Light-Scattering Detection (ELSD) is a nearly universal technique that should be considered as an advantageous alternative to UV or RID detection in impurity profiling, since response factor is generally tighter than with UV detectors, providing a more accurate picture of mixtures profile, and allowing the use of gradient elution.





Standard mixture:	Synthetic Mix of PEG MW 200, 300, 400, 600, 1000 and 2000
Column:	ACE Excel C-18 (100 x 3.0 mm; 1.7 μm)
Column Oven:	40°C
Injection Volume:	1µL of 10mg/ml sample in water
Flowrate:	1.0mL/min
Eluent:	A: H ₂ O-B: ACN
Gradient:	0-4 minutes: 15% to 31% of B,
	4-4.5 minutes: 31% of B,
	4.5-9 minutes: 31% to 40% of B
Detector:	SEDEX 100LT ,45°C, filter 1s, 3.5bar, SAGA activated

TECHNICAL SPECIFICATIONS

		COMMUN
Detection	SAGA-enhanced Photodiode	Selection
Light Source	Blue SEDERE high power laser Elapsed Time Counter	Events
Temperature Range	Ambient to 100°C	
Nebulizer	HPLC, UHPLC, SFC	Power-dov
Eluent Flow Rate	50µL/min to 2mL/min	Computer
Typical Sensitivity	< 250 pg	Software
DATA		EXTERNA
Analog Output	0 - 1 Volt	
	0 - 1 Vott	Power
Gain Settings	1 to 7 or SAGA (patented)	Power Gas Supply
Gain Settings	1 to 7 or SAGA (patented)	

COMMUNICATION			
Selection & Display	OLED Display and Keypad		
Events	Contact Closure, TTL for Ready, Autozero		
Power-down Methods	Shut-off: Gas, Light Source, Heating and/or Photodiode Cleaning Mode		
Computer Interface	USB, RS-232		
Software	Drivers (option)		
EXTERNAL REQUIREMENTS			
Power	100V to 240V (50Hz/60Hz)		
Gas Supply	Nitrogen or Air 3.5bar (less than 3L/min)		
Dimensions	250mm (10in) W 330mm (13in) H 530mm (21in) D		

15kg (3