

THE RESULT OF 25 YEARS OF EVOLUTION





Low Temperature Evaporative Light-Scattering Detectors

SEDERE

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FOR CHROMATOGRAPHIC PURIFICATIONS



SENSITIVITY
FLEXIBILITY
EXPERIENCE

SEDEX FP FOR CHROMATOGRAPHIC PURIFICATIONS

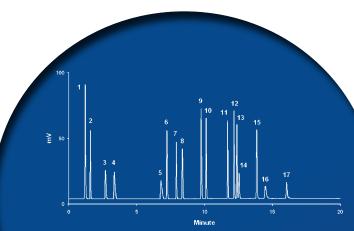
SEDEX Model FP combines simplicity, reliability and robustness for all your purification works by preparative HPLC, preparative SFC, Flash Chromatography or CounterCurrent Chromatography, thanks to unrivalled SEDEX technology. SEDEX Model FP allows for the detection of essentially all compounds, detection is based on a universal property of all analytes and does not require the presence of a chromophoric group, electroactive group, etc. This detector presents a new design and a number of outstanding innovations providing the best optical and electronic benefits at a very competitive price. SEDEX Model FP can be connected to any purification system and control can be done either locally or via a PC thanks to our 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.

FEATURES AND BENEFITS:

- Minimized band broadening thanks to a dedicated SEDEX FP nebulizer and an innovative cell design. This nebulizer covers the flow rate range from 100 µL/min to 5 mL/min and can be readily and quickly mounted and dismounted
- With **SAGA** (SEDEX Automated Gain Adjustment), an innovative gain control available when it is driver-controlled by software, SEDEX FP automatically adapts the gain setting to avoid any off-scale saturation of the detector.
- An optimized liquid flow path and a Gas-Focusing technology in the optical detection cell prevent the detector from any clogging or contamination, and extend its operability.
- Complete remote control: the gas, heater, photomultiplier and light source can be automatically shut off at the end of a series of purifications.

TYPICAL APPLICATION: AMINO ACIDS, PEPTIDES, PROTEINS

In protein and peptide "mapping" and purification, where gradient elution is required, SEDEX ELSD has a key advantage over UV detection: it can detect all compounds including single amino acids, its baseline is unperturbed by the mobile phase change during the gradient, and remains flat. As a mass detector, ELSD can also provide a material balance purity assessment.



Chromatogram of the direct and simultaneous HPLC/ELSD analysis of eight underivatized amino acids, five peptides and four proteins

- 1 Glycine, 2 Proline, 3 Valine, 4 Methionine, 5 Leucine,
- 6 Tyrosine, 7 GLY-TYR, 8 Phenylalanine, 9 Tryptophane,
- 10 VAL-TYR-VAL, 11 MET-Enkephaline, 12 Angiotensin II,
- 13 Ribonuclease A, 14 LEU-Enkephalin, 15 Cytochrome C, 16 Holo-Transferrin, 17 Apomyoglobin.

TECHNICAL SPECIFICATIONS

COMPONENTS	
Detection	Photodiode
Light Source	Blue LED Elapsed Time Counter
Temperature Range	Ambient to 100°C
Nebulizer	Flash-Purif
Eluent Flow Rate	100μL/min to 5mL/min
Typical Sensitivity	100ng
DATA	
Analog Output	0 - I Volt
Gain Settings	I to 8
Filter	Moving Average (0 - 0.5 - 1 - 2 10)
Signal Amplification	SAGA (SEDEX Automated Gain Adjustment)
Data Rate	I OHz
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 REQUII	REMENTS
Power	100V to 240V (50Hz/60Hz)
Gas Supply	Nitrogen or Air 2.0bar (less than 3L/min)
Dimensions	250mm (10in) W 330mm (13in) H 530mm (21in) D
Weight	15kg (33lb)

SEDERE IS COMMITTED TO USER SATISFACTION WITH EVERY SEDEX DETECTOR, AND PROVIDES YOU WITH:

- A Worldwide distribution network at your service.
- On-site installation and training.
- Full SOP (Standard Operating Procedures) including IQ, OQ, PQ.
- · Technical and applications support.

- Web-access to applications in many fields.
- · User seminars, on and off-site.
- Flexible service contract options.
- Easy-to-order spare parts and accessories.