



SEDEX™ 90LT FOR HIGH PERFORMANCE AND HIGH THROUGHPUT



Exclusive low-temperature evaporation for a better sensitivity of thermally labile and semi-volatile compounds



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



Wide choice of nebulizers to fit your application: HPLC, UHPLC, SFC, Low flows...



Direct dynamic range of 4 orders of magnitude and extended linear region for easy and reliable quantitation

SEDEX Model 90LT 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.

SEDEX Model 90LT combines the highest sensitivity, reliability, and accuracy for your analyses compared to all other aerosol-based detectors, thanks to unrivalled SEDERE low-temperature technology.

This detector presents a number of outstanding innovations providing the best optical and electronic benefits at a reasonable price.

SEDEX Model 90LT can be connected to any HPLC or SFC equipment, and you can control the detector locally or via a PC for a fully integrated system 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.

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SENSITIVITY
FLEXIBILITY
EXPERIENCE

SEDERE IS COMMITTED TO USER SATISFACTION WITH EVERY SEDEX DETECTOR



Worldwide distribution



On-site installation and training



Full qualification protocol



Technical and application support



Web-access to application database



User seminars, on and off-site



Flexible contract options

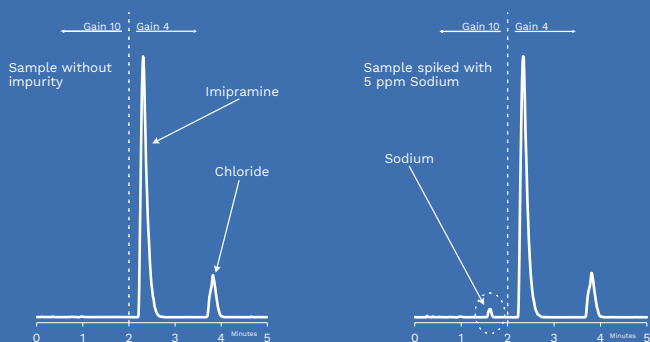


Spare parts and accessories

APPLICATION: Impurity assessment and response consistency

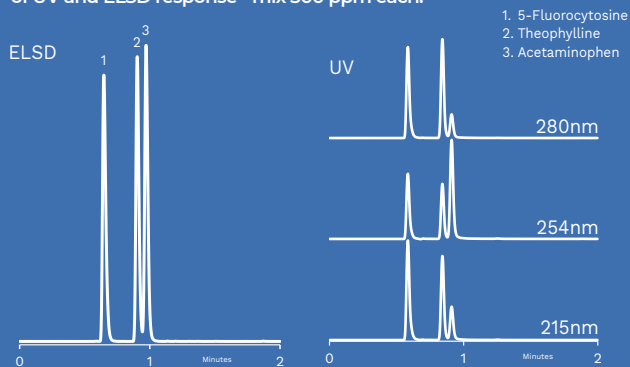
Aerosol-based detectors are very useful to pharmaceutical analysis, particularly those which provide the best sensitivity and reproducibility, a wide dynamic range, a correct direct linearity and response consistency, and which suit both conventional HPLC and U-HPLC.

Impurity assessment - Simultaneous determination of Imipramine and its counterion, with and without an impurity (Sodium 5ppm) :



SEDEX Model 90 LT-ELSD meets perfectly well these requirements. Two case studies are presented to demonstrate the capability of the detector for impurity assessment and response consistency.

Response consistency - Fast HPLC of 3 pharmaceutical drugs, comparison of UV and ELSD response - mix 500 ppm each:



TECHNICAL SPECIFICATIONS

COMPONENTS

Detection	Photomultiplier (PMT)
Light Source	Blue laser 10mW 405nm Elapsed Time Counter
Temperature Range	Ambient to 100°C
Nebulizer	HPLC, UHPLC, LowFlow, Micro, CC, SFC
Eluent Flow Rate	5µL/min to 5mL/min
Typical Sensitivity	500 pg

DATA

Analog Output	0 - 1 Volt
Gain Settings	1 to 12
Filter	Moving average (0,0.5, 1, 2...10)
Data Rate	100Hz

COMMUNICATION

Selection & Display	LCD 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	230V/50Hz or 115V/60Hz
Gas Supply	Nitrogen or Air 3.5bar (less than 3L/min)
Dimensions	250mm (10in) W 480mm (19in) H 550mm (22in) D
Weight	18.5kg (41lb)