

sedex
LT-ELSDTM

SEDEXTM LC

FOR QUALITY CONTROL AND
EDUCATIONAL LABORATORIES



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



Minimized band broadening thanks to a new dedicated nebulizer and innovative cell design



Direct dynamic range of 5+ orders of magnitude and extended linear region for easy and reliable quantitation

SEDEX Model LC Evaporative Light-Scattering Detector for HPLC 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 LC combines sensitivity, reliability, and accuracy for your analyses, thanks to unrivalled SEDEX technology. 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 LC can be connected to any HPLC 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

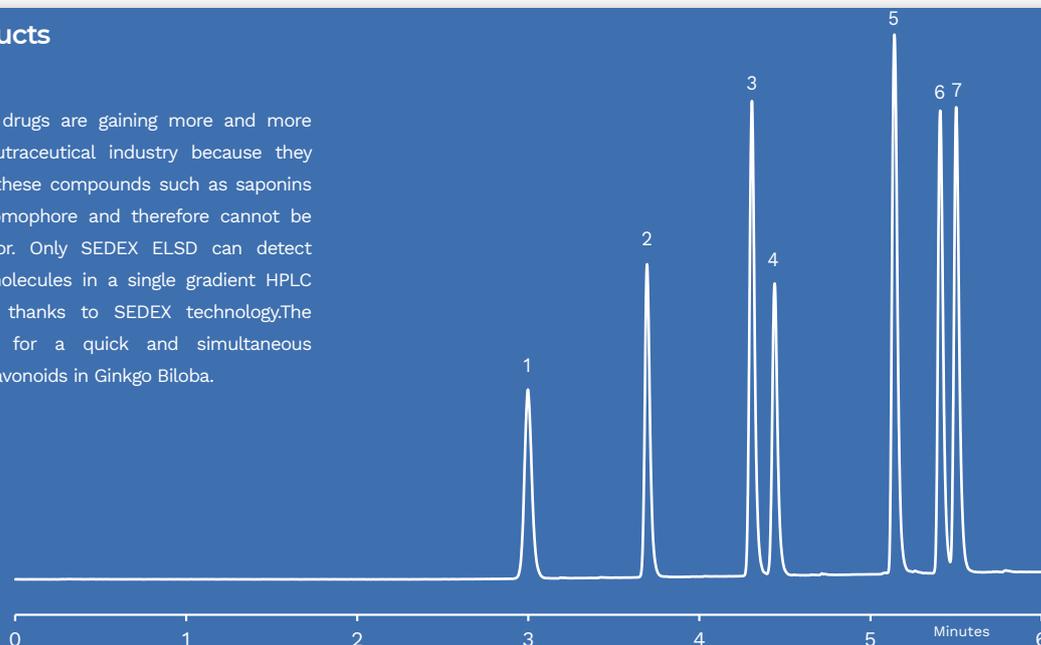


Spare parts and accessories

APPLICATION: Natural products

Many natural products such as herbal drugs are gaining more and more interest in the pharmaceutical and nutraceutical industry because they contain bioactive compounds. Some of these compounds such as saponins and terpenes do not possess any chromophore and therefore cannot be analyzed in HPLC using a UV detector. Only SEDEX ELSD can detect chromophoric and non-chromophoric molecules in a single gradient HPLC analysis with an excellent sensitivity, thanks to SEDEX technology. The following example shows a method for a quick and simultaneous determination of terpenic lactones and flavonoids in Ginkgo Biloba.

1. Bilobalide
2. Ginkgolide C
3. Ginkgolide A
4. Ginkgolide B
5. Quercetin
6. Isorhamnetin
7. Kaempferol



TECHNICAL SPECIFICATIONS

COMPONENTS

Detection	SAGA-enhanced Photodiode
Light Source	Blue LED Elapsed Time Counter
Temperature Range	Ambient to 100°C
Nebulizer	HPLC
Eluent Flow Rate	200µL/min to 2mL/min
Typical Sensitivity	5 ng

DATA

Analog Output	0 - 1 Volt
Gain Settings	1 to 7 or SAGA (patented)
Filter	Dedicated numerical filter
Signal Amplification	SAGA (SEDEX Automated Gain Adjustment)
Data Rate	40Hz

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
Weight	15kg (33lb)