



HANGZHOU TIANZHAO TECHNOLOGY CO., LTD

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## Evaporative light scattering detector

Product model: [ELSD-500](#) Product time: [2021-07-06](#)

Elsd500 adopts advanced optical design, which greatly provides sensitivity. Enhanced digital signal processing reduces peak width. Gain and temperature control, optimize the experimental method.

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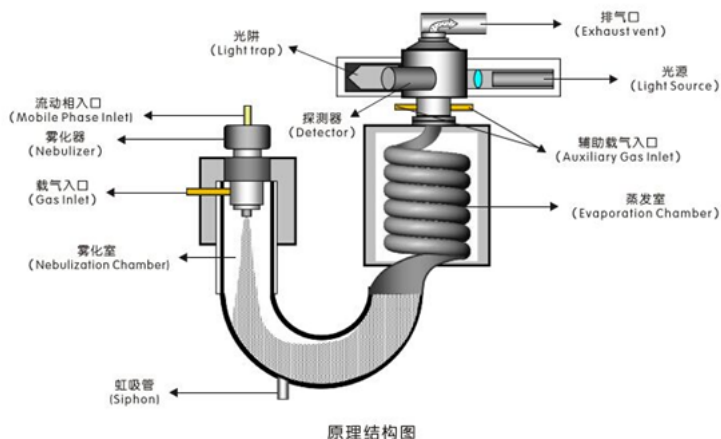
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Hot news

RoHs 2.0 standard

### Product

Elsd-500 evaporative light scattering detector is the first evaporative light scattering detector product launched by Xuyu technology; Elsd-500 can be widely used in the detection of carbohydrates, lipids, fatty acids, amino acids, drugs and polymers , especially in the determination of effective components of traditional Chinese medicine and Chinese patent medicine without UV absorption.



### Performance comparison between ELSD and several commonly used detectors

	ELSD	UV	RID	MS
application	Universal	Compounds with UV absorption	Universal	Universal
response	Mass detector	Chemical detector	Refraction detector	Mass detector
sensitivity	High	High	Low	High
Unknown	Yes	No	Yes	Yes
Gradient effect	No	Yes	Yes	No
baseline	Best	Better	Bad	Best

**Performance:**

It can be connected with any HPLC system  
 It can detect samples with lower volatility than phase  
 High Sensitivity and wider dynamic range  
 Low temperature evaporation technology is adopted, It can provide stable evaporation temperature of 130 °C.  
 Using semiconductor laser and photomultiplier tube to detect

**Technical parameters**

Environmental requirements	Room temperature 15-30 °C, relative humidity less than 90%
Evaporation temperature range	Room temperature~130 °C
Accuracy	±1 °C
Gas	N2 or Air
Pressure	2~5 bar
Pressure accuracy	0.01bar
Gas flow	1~4 L/min
Flow accuracy	0.02 L/min
Solvent flow rate	10 μl~3 mL/min
light source	Laser diode, 650 nm
SENSOR	Photomultiplier + laser
Detection limit	<1 ng (Glucose, direct injection)
Baseline noise	<0.05 mV (1 ml/min)
Drift	<0.5 mV (1 ml/min)
Quantitative range	0.1~30 μg (Glucose, HPLC)
RSD6	<2% (Glucose, 1 ml/min)
Signal output	0-10 mV DC, or 0-1 V DC
Computer interface	RS232

**Product introduction:**

Elsd500 adopts advanced optical design, which greatly provides sensitivity. Enhanced digital signal processing reduces peak width. Gain and temperature control, optimize the experimental method.

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