Fluorescence Detector

Integration of semi-microcolumn technologies - Optimum for high-sensitivity analysis!



Stable Baseline

The optical system was miniaturized to improve thermal stability and minimize noise and drift.

Flow Cell with Special Structure Supporting Semi-microcolumn

A specially designed cell minimizes the band broadening caused by stagnant flow profiles at the entry and exit of the cell, which used to be pronouncing at low-flow rates in conventional fluorescence detectors.

StandardFor 7 μLFor semi-microcolumn LCOptionalFor 12 μLConventional LC

The detector has a 7 μ L flow cell, which is compatible with columns of 1.0 mm i.d., to enable high-sensitivity analysis with trace sample quantity.

Optimum Wavelength Selectable

The optimum wavelength can be determined easily by the scan function for excitation wavelength and emission wavelength.

Time Program Function for High-sensitivity Analysis

The optimum wavelength can be set for each peak, which greatly improves the detection sensitivity.

Lamp Timer Function

The lamp lighting time can be monitored and used to judge when to replace the lamp.

Comparison of theoretical plate number with competing manufacturers



Analysis by post-labeling of histamine



HPLC Conditions

Column: CAPCELLPACK18 UG120 S5 2.0 mm i.d. x 150 mm Detection: EX 340 nm, EM 455 nm Sample: Histamine 800 pg

Post-labeling system



For post-column reaction, use the detector with a thermoreactor.

System Control Function

Remote operation from a WindowsTM PC is possible by using Syscon-21 software.

Specifications

Product No.	3013
Product Name	Fluorescence detector
System	Specific photometry of transmitted light monitor
Light Source	Xe lamp
Fluorescence Wavelength	Excitation side: 200 to 850 nm Fluorescence side: 250 to 900 nm
Bandwidth	Selectable from 15 and 30 nm (fluorescence side)
Sensitivity	300 or more (Raman scattered light of water S/N, 12 μL flow cell) 180 or more (Raman scattered light of water S/N, 7 μL flow cell)
Flow Cell	Standard: 7 μL Optional: 12 μL
Power	AC 100 V ±10%, 50/60 Hz, 420 W
Dimensions	260(W) × 243(H) × 500(D) mm
Weight	About 19 kg