

구매규격서

COMMODITY DESCRIPTION

품목번호 Item No.	관세분류번호 HSK No.	정부물품분류번호(8자리) Korean Government Commodity Classification Code(eight-digit)	품명 Description	단위 Unit	수량 Q'ty
1	9027.20.0000	41115705-01	Micro-Inert HPLC (PDA/RID)	System	1

I. End-user's Use

- This Separation System can accurate analysis of wide range organic and inorganic compounds Quantitation & Qualification and makes use analysis of the hazardous substance & Nutrition in the foods.

II. Configurations of Goods

1. Main Body (주장비)
 - 1) Separation Module 1 set
 - 2) Photodiode Array Detector 1 ea
 - 4) Refractive Index Detector 1 ea
2. Accessories (부대장비)
 - 1) Data Software & Data processing system 1 set

III. Performance and Specification

A. Performance

1. Titanium system is designed for using the Hydrophobic solvent as like Chloroform, Ethyl acetate, Dichloromethane, etc prevent from swelling by using titanium Head.
2. Solvent Delivery module has an integrated, self adjusting constant vacuum level, membrane degasser that effectively removes dissolved oxygen from the mobile phase. This results in more stable flow rates, accurate gradient composition, low pulsation and stable baselines.
3. Wetted material (pump head, injector, valve, tube etc.) is made of PEEK or equivalent. Thus, adsorption can be reduced when you analyze even a sample include a protein.
4. This System comes equipped with diagnostic capabilities that include a real-time running GMP/GLP log.

B. Specification

1. Separation Module
 - 1) Solvent Delivery Module (High Pressure Gradient System)
 - (1) Pump Head Composition : Titanium (Bio-compatible System) or better
 - Swelling Effect: None Appear
 - Oxygen Permeability : None Appear
 - It can be using the hydrophobic solvent and Bio compatible analysis.
 - (2) Type : Dual Drive Motors.
 - (3) Drive system : Pulse Motor Constant Flow, Constant Pressure Type
 - (4) Flow Rate Range : 0.01 to 3.00 mL/min in 0.001 mL/min increments or wider

- (5) Flow Precision : $< \pm 0.3\%$ RSD or better
- (6) Flow Accuracy : $< \pm 2.0\%$ RSD or better
- 2) Sample Injection System
 - (1) Number of Sample Vials : 100 Vials or more
 - (2) Injection Reproducibility : $< 1\%$ RSD (1 μL Injection) or better
 - (3) Injection Volume Range : 0.1 to 400 μL or wider
 - (4) Sample Cooling : Minimum : 4°C or less
Maximum : 20°C or wider
- 2. Photodiode Array Detector
 - 1) Wavelength range : 190~700 nm or wider
 - 2) Noise : $< \pm 0.3 \times 10^{-5}$ AU/cm or better
 - 3) Cell volume : 9 μL or less
 - 4) Path Length : 10 mm or more
- 3. Refractive Index Detector
 - 1) Noise : $< \pm 2 \times 10^{-8}$ RIU or less
 - 2) Drift : $< \pm 1 \times 10^{-7}$ RIU or less
 - 3) Cell volume: 8 μL or less
 - 4) Temp. Control : $30\sim 50^{\circ}\text{C}$ or wider
- 4. Data Software & Data Processing System
 - 1) 21 CFR Part 11 : Full Compliance with the electric records and electronic signatures.
(include Audit trail functions)
 - 2) Ease of Operation : Comes with a Wizard that easily creates complex methods and sequence
 - 3) Controls up to 4 systems and Linkup with external systems
 - 4) Data processing System: CPU Core i5-9500, RAM 8GB, HDD 1TB, 27inch LED monitor, Laserjet(B&W, A4, 20 ppm), OS (Windows10 pro) or better

IV. Remarks

- 1. Shipment/Delivery Terms/Installation and operation
 - 1) International Shipment (international supply)
Contracted (L/C opened) instruments of international supply should be shipped within 60 days.
 - 2) Delivery (only for domestic supply)
Contracted Instruments of domestic supply should be delivered within 60 days.
- 2. Warranty
The warranty must be valid for 1 years from the successful installation and test-run.

Bid with any equipment functioning same or above Commodity Description is acceptable.