

# HECTOR

## CERTIFICATE OF ANALYSIS

### HECTOR-M C18

#### HECTOR Column Specification

Part Number: C18-M51002546  
 Dimensions: 250 x 4.6 mm  
 Serial Number: 20G0603  
 Particle Size: 5  $\mu$ m  
 Pore Size: 100 Å  
 Silica Lot Number: KU80503

#### Operation Ranges

Temp. (Max): 60 °C  
 Pressure (Max): 6000 psi  
 pH: 2.0-8.0  
 Storage Solvent: Mobile Phase

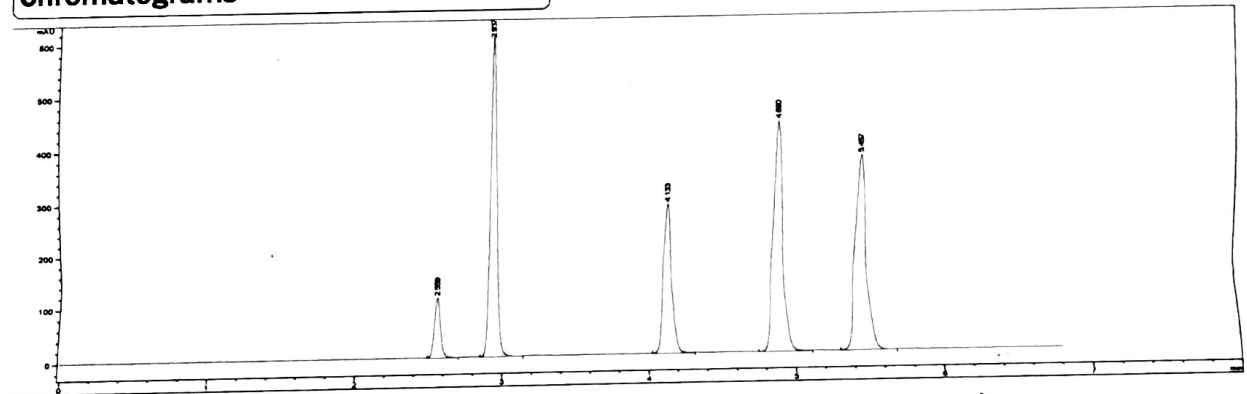
#### Test Conditions

Mobile Phase: MeOH/Water 9:1(v/v)  
 Flow Rate: 1.0 mL/min  
 Detection: UV 254 nm  
 Temperature: 25 °C  
 Injection: 1  $\mu$ l  
 Back Pressure: 110 bar

#### Sample Compounds

Uracil: 0.05 mg/mL  
 Aniline: 1.50 mg/mL  
 Benzene: 18.00 mg/mL  
 Toluene: 22.22 mg/mL  
 Naphthalene: 1.55 mg/mL

#### Chromatograms



Peak No & Name	Retention Time(min)	Plate Number	Asymmetry
1. Uracil	2.559		
2. Aniline	2.937	23083	1.13
3. Benzene	4.133	26287	1.07
4. Toluene	4.890	27505	1.04
5. Naphthalene	5.457	26037	1.03

#### Quality Control Parameters

	Specifications	Test Result
Retention Factor (k')	Range= 1.05 ~ 1.25	1.13
Theoretical plates (N)	Min= 18000	26037
Asymmetry (As)	Range= 0.95 ~ 1.15	1.03

Manufacturing Date: 27-Jul-20

Quality Assurance: *Lee Jong Min*



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