Operating Instruction Sheet
LarihcShell-P

Column Description

Product Type:	Analytical columns for both HPLC and SFC operations
Chiral Selector:	Derivatized cyclofructan (CF6) was covalently bonded on 2.7 μm superficially porous particles (SPPs)
Hardware:	Idex® (Isobar) with 2 micron (inlet) and 1 micron (outlet) frits
Dimensions:	Available in 5/10/15 cm length with 2.1/3.0/4.6 mm I.D.

QC Test Conditions

Sample:	1-(1-naphthyl)ethylamine (2 mg/mL in mobile phase)
Mobile Phase:	60/40/0.3/0.2 ACN/MeOH/Acetic Acid(AA)/Triethylamine(TEA)
Temperature:	Ambient (23 °C)
Injection Volume:	0.1-0.8 μL
Detection:	UV 280 nm

Operation Parameters

Flow Direction:	Indicated by column label
Max Pressure:	400 bar for 4.6 mm I.D. columns; 500 bar for 3.0 mm/2.1 mm I.D. columns
Max Flow Rate:	Within pressure limits, there is no limit on the flow rate
Temperature:	5-45 °C (allow step-wise increase/decrease @1 °C/min)

Mobile Phase Solvents

These CSPs can be used in any type of organic solvents without any issue. However, switching to or from a normal phase condition to other mobile phases, please use ethanol or IPA as a transition solvent. Allow at least 10 column volumes of conditioning time before injection.

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Screening mobile phases

Polar Organic:	60/40/0.3/0.2 ACN/MeOH/AA/TEA
Normal Phase:	30/70/0.1 EtOH/Hexane (or Heptane)/TFA

Optimizations

Polar Organic:	Change ratio of ACN/MeOH Change the ratio of AA/TEA between 3/1 to 1/3
Normal Phase:	Change ratio and/or different type of alcohol
Flow Rate:	Change the flow rate according to the retention time
Temperature:	Change the temperature
Storage	Pure ethanol/IPA is recommended for long term storage.
Regeneration	Flush the column with 50/50, ACN/MeOH @ lower flow rates for at least 2 hours. Then equilibrate with mobile phase.
Shipment	Each column has been QC-tested before shipping. The columns are stored in pure ethanol.

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