

DiagAg™ Phenyl Agarose Particles, 150-350 µm, High Flow

Cat.No: DAG-24PA38-H

DESCRIPTION

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These particles are hydrophobic interaction chromatography (HIC) adsorbents having a carbon chain of phenyl. They are specially designed for the purification of biological molecules based on their hydrophobicity profiles. HIC is a versatile technique and could show high selectivity to individual molecules according to their exposed hydrophobic zones. It is particularly useful for intermediate and final-stage purifications. A HIC medium normally binds at moderate to high salt concentrations. It is logical to place HIC step after an IEX step where molecules are usually eluted at high salt conditions. HIC media shows much milder purification conditions than reversed phase chromatography (RPC) media. Better biological activity could be maintained in HIC operations than RPC operations. The longer the carbon chain, the higher the surface hydrophobicity. These particles are suitable to purify proteins from crude or viscous samples.

PRODUCT INFORMATION

Diameter	150-350 µm
Functional Group	Phenyl
Concentration	50% v/v
Matrix	Highly crosslinked agarose
Binding Capacity	>20 mg BSA/mL
Surface Group Density	25 µmol/mL
pH Range	2-14 (short term), 3-12 (long term)

Maximum Operating Pressure 300 kPa

Maximum Linear Velocity >1500 cm/h

Working Temperature 4-30°C

STORAGE AND SHIPPING

Storage Buffer 20% ethanol

Stability All commonly used buffers; 1 M acetic acid, 1 M NaOH, 6 M guanidine hydrochloride, 8 M urea, 30% acetonitrile, 30% isopropanol, 70% ethanol, 3 M $(\text{NH}_4)_2\text{SO}_4$

Storage 2-8°C. Do not freeze.
