Product Data Sheet

MCI GEL™ CHP07/P120

MCI GEL™ CHP07/P120 is modified highly porous Styrene-DVB matrix. It has higher hydrophobicity and greater selectivity for non-polar molecules, which is derived from chemically bonded bromine to the aromatic rings, than standard aromatic adsorbents. It is applied to reversed phase chromatography.

Product

Grade Name	MCI GEL™ CHP07/P120
Type	Synthetic Adsorbents
Matrix	Modified Styrene-DVB, Pourous

Specification

Water content	%	43 - 53
Particle Size Distrubution on 150 µm	%	15 max.
Particle Size Distribution 63 - 150 µm	%	70 min.
Particle Size Distribution thr. 63 µm	%	20 max.

Properties

Shipping Density	g/L	790
Particle Density	g/mL	1.18
Specific Surface Area	m^2/g	590
Pore Volume	mL/g	1.0
Pore Radius	Å	110

Recommended Operating Conditions

Maximum Operating Temperature	°C	130
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Flow rate	BV/h	Loading 0.5 - 5
	BV/h	Displacement 0.5 - 2
	BV/h	Regeneration 0.5 - 2
	BV/h	Rinse 1 - 5
Regenerant		Organic solvents for hydrophobic compounds
		Bases for acidic compounds
		Acids for basic compounds
		Buffer solution for pH sensitive compounds
		Water for an ionic solution
		Hot steam for volatile compounds

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Pore size distribution

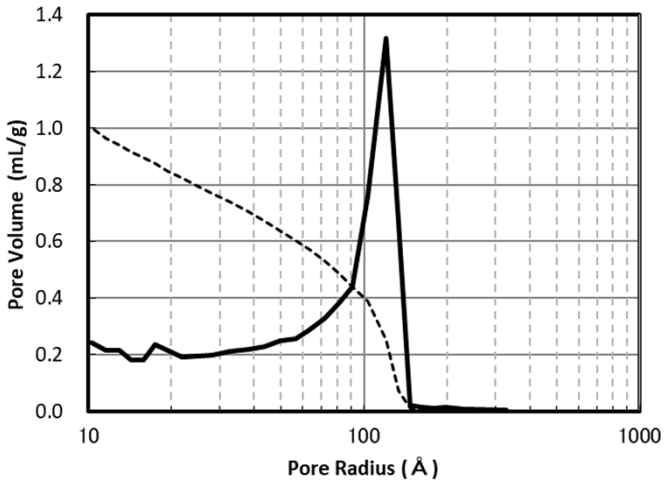

Fig. 1 Pore size distribution of CHP07/P120

Swelling Ratio In Various Solvents

Methanol	1.11
Ethanol	1.17
2-Propanol	1.19
Acetone	1.20
Toluene	1.19
Acetonitrile	1.20
Water	1.00

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of MCI GEL™ CHP07/P120 resin in normal down flow operatior is shown in the graphs below.

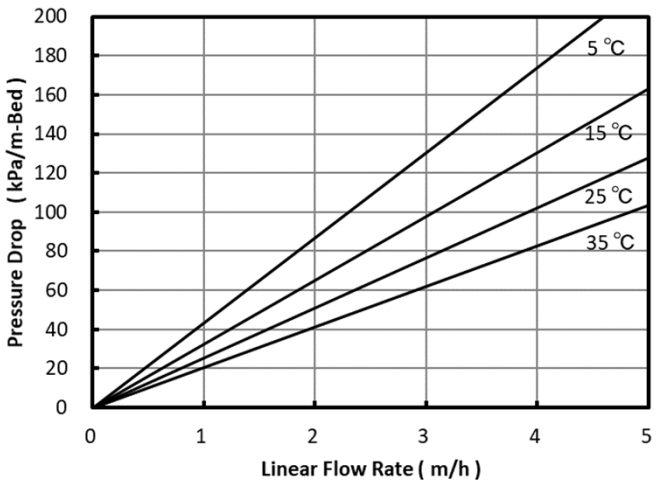

Fig. 2 Pressure Drop of CHP07/P120

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Indicative Applications

- Purification of small peptides, oligonucleotides and proteins
- Purification of aitamins, antibiotics, enzymes, steroids and other substance from fermentation solutions
- Purification of fatty acids
- Purification of various perfume
- Purification of various chemicals

Storage condition

Synthetic adsorbents are at high risk of mold growth. Accordingly, syntheric adsorbents should be stored properly. Properly stored synthetic adsorbent resins may be stored for up to one year after production before the onset of any mold growth is detected. Optimal storage is with a 20% alcohol solution such as ethanol or isopropanol. A 10% or higher concentration of salt solution, such as NaCl, is also recommended to preserve new or used resin for storage. In case salt cannot be used, a 0.01 to 0.02 N NaOH solution may be acceptable as mold cannot withstand survival at pH higher than 12. Storage at freezing temperatures should be avoided as it may cause breakage or crush certain resin particles.

Notice