

# MCI GEL™ CHP20/P20 and CHP50/P20

MCI GEL™ CHP20/P20 and CHP50/P20 is based on a unique 20µm rigid polystyrene/divinylbenzene matrix. A controlled pore size distribution and large surface area offer excellent resolution and the capacity for a wide range of molecules, from small peptides and oligonucleotides up to large proteins. Following tables and pages include specification and supporting data.

CHP20/P20 and CHP50/P20 are characterized by:

- >> Wide pH operation range
- >> Excellent batch-to-batch reproducibly
- >> Wide application
- >> High chemical stability
- >> Excellent pressure/flow characteristics

## Physical and chemical properties

Grade name		MCI GEL™ CHP20/P20	MCI GEL™ CHP50/P20
Bead form		Rigid, spherical, porous	Rigid, spherical, porous
Matrix		Polystyrene/divinylbenzene	Polystyrene/divinylbenzene
Recommended pH		All range (1 to 14)	All range (1 to 14)
Mode Diameter	µm	15.0-20.0	15.0-20.0
Within Mode Diameter	±2.5µm	40% min	40% min
Within Mode Diameter	±5.0µm	70% min	70% min
Moisture Content	%	70.0—90.0	60.0-80.0
Particle Size Distribution	vol %	report	report
Apparent Density*	g/l-R	report	report
Specific Surface Area*	m <sup>2</sup> /g	571	580
Specific Pore Volume*	ml/g	1.79	1.47
Pore Radius*	Å	231	140

Note: properties with a mark “\*” are referential data .

# MCI GEL™ CHP20/P20 and CHP50/P20

## >> Wide pH stability

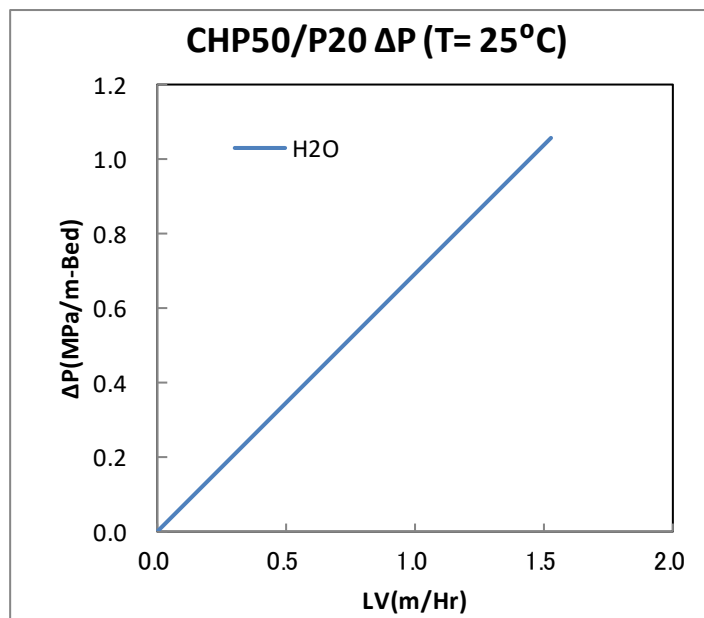
The polystyrene/divinylbenzene matrix provides MCI GEL™ CHP20/P20 and CHP50/P20 with chemical stability over a wide pH range. With both an operating and a cleaning ranges cover all pH 1 to 14, both products has broad flexibility in the choice for running conditions and cleaning procedures.

## >> Batch-to-batch reproducibility

The combination of a unique manufacturing process and high quality assurance standards results in reproducible bath-to-batch quality. The process gives consistent pore and bead structure, both within and between batches under a strict quality control. All manufacturing is regulated under ISO9001.

## >> Excellent pressure/ flow characteristics

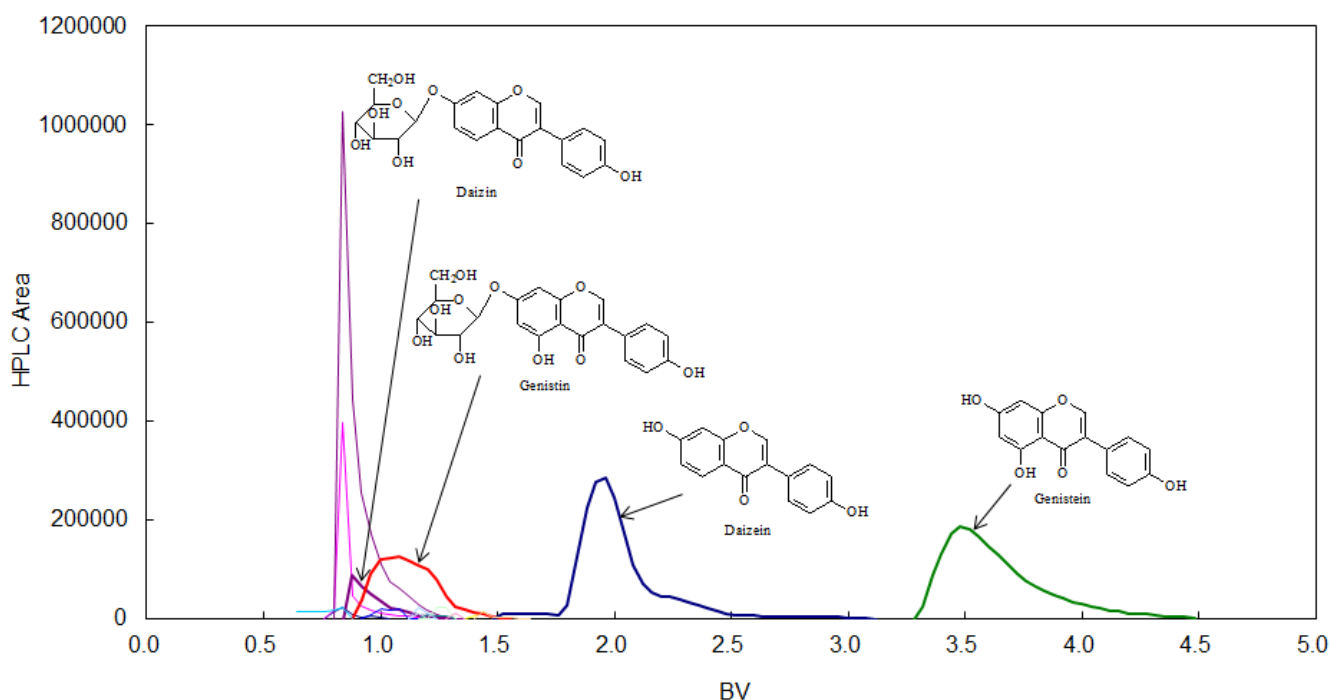
CHP20/P20 and CHP50/P20 is composed of 20 $\mu$ m diameter beads, spherical in shape and free from broken beads, fragments, and fines. This results in stable and densely packed beds with excellent hydraulic properties shown in the graphs below.



# MCI GEL™ CHP20/P20 and CHP50/P20

>> Wide application

example: Preparative chromatographic separation of soybean crude extract



Conditions:

Adsorbent, CHP50/P20; Column size, 465mm x 32mm I.D.;

Eluent, MeOH/0.1M ammonium acetate=80/20; Flow rate, 7.48ml/min.

Sample: Soybean crude extract. Injection: 37.4ml (0.1BV).

Preparative chromatographic fractions were analyzed by analytical HPLC and elution profile of each compound was determined as above.

## Notice

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