

# DIAION™ SEPABEADS™ MCI GEL™

AUTHORIZED DISTRIBUTOR

## DIAION™ & SEPABEADS™ Synthetic Adsorbents

### Aromatic Type DIAION™ HP20, HP21

Widely used in refining of pharmaceuticals and natural extracts, since these are suitable for adsorbing large molecules because of their relatively large pore sizes and have superior adsorption/ desorption.

HP20 and HP21 are widely used in a variety of industrial applications, especially adsorption, desalting and decolorization of natural products and small proteins.

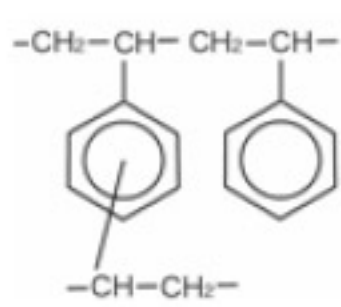
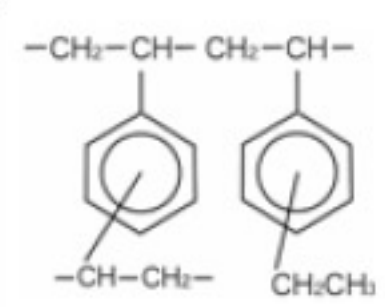
### Aromatic Type SEPABEADS™ SP825L, SP850

SP825L and SP850 are also high porous, styrenic adsorbents. They have much larger surface area and a narrower, more uniform pore-size distribution than HP20 grades. They offer nearly two times the surface area of HP20, or twice the capacity for small molecules (< 1500mw). These grades are recommended for adsorption, desalting, and decolorization.

### Aromatic type SEPABEADS™ SP700

SEPABEADS™ SP700 is synthetic adsorbent with larger surface area and high adsorption capacity. Its pore structure is designed for absorption/desorption for substances.

SEPABEADS™ SP700 shows high uptake capacity and efficient desorption performance of target molecule.

Product	DIAION™ HP20	DIAION™ HP21	SEPABEADS™ SP850	SEPABEADS™ SP825L	SEPABEADS™ SP700
Chemical Structure					
Apparent Density (g/L-R)	680	685	695	685	685
Moisture Content (%)	55 ~ 65	45 ~ 55	46 ~ 52	52 ~ 62	60 ~ 70
Particle Size Distribution > 250µm	90 min			95 min	
Effective Size (mm)	0.25 min				
Uniformity Coefficient	1.6 max				
Specific Gravity	1.01				
Maximu Operating Temperature (°C)	130 max				
Prosimetric Characteristics					
Specific Pore Volume(mL/g)	1.3	1.3	1.1	1.4	2.1
Specific Surface Area(m <sup>2</sup> /g)	590	640	930	930	1200
Pore Radius(Å)	290	110	45	70	90
Cephalosprin C Adsorption (g/L-R)	38	48	85	76	76
Applications	Polypeptide and proteins refining, Natural extracts refining, e.g. polyphenols, Preparation of fermentation, Chromatographic separation		Pharmaceuticals refining, e.g. cephalosporin C, Polypeptide and proteins refining, Natural extracts refining, e.g. polyphenols, Preparation of fermentation, Chromatographic separation		