Product Data Sheet DIAION[™] HP20SS

DIAION[™] HP2OSS is small particle grade based on DIAION[™] HP2O. 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. It offers nice balance of pressure flow characteristics and true chromatographic fractionation and has also been successfully applied in simulated moving bed applications for a variety of small bio molecules.

DIAION[™] HP20SS is characterized by:

- >> Unique pore size distribution
- >> Excellent batch-to-batch reproducibly
- >> Wide application

>> High chemical and physical stability >> Excellent pressure/flow characteristics

Physical and chemical properties

	DIAION [™] HP20SS
	Spherical, porous
	Polystyrene/divinylbenzene
	-CH ₂ -CH-CH ₂ -CH- -CH-CH ₂ -
g/L	670
%	55 - 67
%	15 max.
%	70 min.
%	20 max.
g/mL	1.01
m²/g	560
mL/g	1.2
Å	290
	% % g/mL m ² /g mL/g

Note : properties with a mark "*" are referential data.

Swelling ratio in various solvents

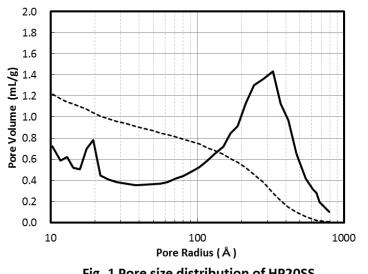
Methanol	1.21
Ethanol	1.21
2-Propanol	1.29
Acetone	1.30
Toluene	1.26
Acetonitrile	1.24
Water	1.00



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Pore size distribution





Recommended Operating Conditions

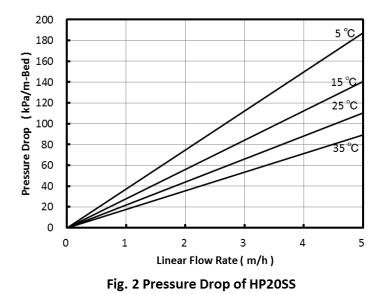
130	°C	Maximum Operating Temperature
0 - 14		Operating pH Range
800	mm	Minimum Bed Depth
Loading 0.5 - 5	BV/h	Flow rate
Displacement 0.5 - 2	BV/h	
Regeneration 0.5 - 2	BV/h	
Rince 1 - 5	BV/h	
		Regenerant
nts for hydrophobic compounds	ganic solver	Or
Bases for acidic compounds		
Acids for basic compounds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



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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM HP20SS resin in normal down flow operation is shown in the graph below.



FDA status

DIAIONTM HP20SS may be used to process food and beverage products and isolate specialized food additives as intended and such used may be said to fully comply with the Federal Food, Drug, and Cosmetic Act.

Applications

- · Purification of small peptides, oligonucleotides and proteins
- Adsorption of vitamins, antibiotics, enzymes, steroids and other substance from fermentation solutions
- Decolorization of various sugar solutions
- Adsorption of fatty acids
- •Removal of phenol
- Adsorption of various perfume
- · Decolorization and purification of various chamicals

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