

Macroporous Adsorption Resin

AB-8 Net Grade

AB-8 Net Grade macroporous adsorption resin is styrene type weak polar copolymer (crosslinking agent is divinylbenzene, monomer is methyl acrylate, porogen is toluene, etc.). It is suitable for the extraction, separation and purification of water-soluble and weakly polar substances, such as stevioside and alkaloids.

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Name	Specification
Appearance	Milky white opaque spherical beads.
The structure of resin	PSD
Polarity	weak polar
Moisture	65%~75%
Particle size range	(60~16mesh) 0.3~1.25mm≥90%
Average pore size	13-14 nm
Pore volume	0.73-0.77ml/g
Porosity	0.44-0.48g/ml
Skeleton density	1.13-1.17g/ml
Porosity	42%~46%
Real Density (g/ml)	1.05-1.09g/ml
Bulk Density (g/ml)	0.65-0.70g/ml
Specific surface area	≥480 m ² /g
Adsorption capacity	≥45mg/g

Residue control indicators

Name	Standard
Benzene	$\leq 0.001\%$
Toluene	$\leq 0.002\%$
Xylene	$\leq 0.002\%$
Divinylbenzene	$\leq 0.001\%$
Ethyl styrene	$\leq 0.001\%$
Diethylbenzene	$\leq 0.001\%$

Product Features:

1. The color milky white or light yellow brings convenience to the processing operation, and the separation and purification of the colored organic compounds are easy to observe.
2. The physical and chemical properties are stable, and it is insoluble in any acid, alkali and organic solvent, which is convenient for the selection of adsorbent and desorbent.
3. It has good selectivity to organic matter and is not affected by the presence of inorganic salts.
4. The regeneration is easy. The regeneration agent can be selected from water, dilute alkali, dilute acid or low-boiling organic solvent. Such as: methanol, ethanol, acetone, etc.
5. Good mechanical strength and long normal service life.

Resin pretreatment

The net grade resin has been deeply processed and can be used directly on the column without pretreatment. For stability, it can be soaked and rinsed with ethanol or double distilled water before use. After the resin is packed into the column, it should be backwashed with water to discharge the gas in the resin, so as not to form a gas barrier to affect the adsorption.

Net grade resin has been deeply processed, and users can directly use it without

pretreatment.

Precautions

1. The resin contains water and should be kept at a temperature of 5-40° C during storage and transportation to prevent freezing at low temperatures and mildew at high temperatures, which affects its use.
2. Because the resin is exposed to the air or loses water for any reason, do not directly inject water to prevent the resin from floating. It can be impregnated with ethanol to restore it to a wet state and then cleaned with water.
3. The adsorbed substance (solution) should be subjected to impurity removal, filtration, and clarification before being put on the column, so as to avoid impurities entering the resin column as far as possible, so as not to cause acute resin poisoning and affect the use.
4. Resin is interrupted. After washing with water, it should be stored in soaked clean water and changed regularly to prevent contamination. It can also be immersed in saturated saline or ethanol for long-term storage.