Product Data Sheet

Seplife® EMC7032

·Descriptions

Seplife® EMC7032 is a highly cross-linked epoxy acrylate carrier that has the appearance of white spherical beads. The particle size distribution is 150-350 micron. The resin is highly hydrophilic and has a porous structure combined with a very high surface area which is ideal for immobilization of enzymes. Epoxy-activated resins allow a simple and fast immobilization of enzymes by multipoint covalent binding between the enzyme and resin. All epoxy acrylate resins are designed to form very stable covalent linkages with different protein groups (amino, thiol, phenolic) under very mild experimental conditions of pH and temperature. Epoxy acrylates can be used in either stirred tank or bed reactor.

The high cross-linking of the resin ensure extremely high mechanical stability thus allowing the possibility to reuse the immobilized enzyme for many cycles.

·Physical and Chemical Characteristics

Matrix	Polyacrylate
Appearance	While Opaque Spherical beads
Functional group	Epoxy/Butyl
Immobilized method	Covalent bond
Moisture content (%)	55-65
Shipping weight (g/ml)	0.70-0.75
Particle size (μm)	150-350
Pore size (Å)	200-400
Surface area (m^2/g)	≧100
Chemical stability	The resin is insoluble in water, acid, alkali and methanol, ethanol, acetone, toluene, n-heptane, DMSO and other organic solvents. The epoxy groups are unstable in acids and bases
Immobilization pH	6-8

·Key features and Benefits

- Easy immobilization through epoxy groups
- Good physical and chemical stability
- Long lifetime

·Recommended Storage Conditions

Recommended temperature of storage (℃)	2-8
Shelf life	6 months

·Precautions

Resins should be stored in sealed containers or bags where temperature was 2-8℃ in dry conditions without exposure to direct sunlight.

Do not mix ion exchange resin with strong oxidizing agents; otherwise it will cause violent reactions.

In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.

Material and samples must be disposed according to local regulations.

Dry polymers will expand when become wetted and may cause an exothermic reaction.

Spilled materials on the floor can cause slippery conditions.

·Ordering Information

Product Name	Reference number	Packing size
Seplife® EMC7032	PC013S01	500g
	PC013S02	1kg
	PC013S03	5kg
	PC013S04	10kg
	PC013S05	25kg

·For more information about SEPLIFE® resins, please contact SUNRESIN® directly.