

•Descriptions

Seplife® EMC7528 is a highly cross-linked acrylate carrier functionalized with octadecyl groups and has the appearance of white spherical beads. The particle size distribution is 400-1000 micron. The resin is highly hydrophobic and has a porous structure combined with a very high surface area which is ideal for immobilization of enzymes by adsorption. Octadecyl acrylate are ideal enzyme carriers for hydrophobic adsorption of enzymes as lipases and transaminases. Upon adsorption on octadecyl carriers the immobilized enzyme can be dried and used in organic solvents or fats and oils transformations. The great advantage of immobilization by adsorption is the very high enzyme activity, the possibility to use on water free systems and the very simple immobilization method. The resin is mechanically very strong and can be used in either stirred tank or bed reactor.

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

•Physical and Chemical Characteristics

Matrix	Polyacrylate
Appearance	White Opaque Spherical beads
Functional group	Octadecyl
Immobilized method	Affinity
Moisture content (%)	55-65
Shipping weight (g/ml)	0.65-0.75
Particle size (µm)	300-1000
Pore size (Å)	200-400
Surface area (m ² /g)	≥ 500
Chemical stability	The resin is insoluble in water, acid, alkali and methanol, ethanol, acetone, toluene, n-heptane, DMSO and other organic solvents.
Immobilization pH	4-10

•Key features and Benefits

- Easy immobilization through adsorption
- Good physical and chemical stability
- Long lifetime

•Recommended Storage Conditions

Recommended temperature of storage (°C)	2-20
Shelf life	3 years

•Precautions

Resins should be stored in sealed containers or bags where temperature was 2-20°C 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® EMC7528	PM042I01	500g
	PM042I02	1kg
	PM042I03	5kg
	PM042I04	10kg
	PM042I05	25kg

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