

**•Descriptions**

Seplife® EMC1040 is a highly hydrophobic copolymer of divinyl benzene and acrylate, that has the appearance of white spherical beads. The particle size distribution is 300-700micron. The resin is highly hydrophobic thanks to the aromatic structure and shows very high porosity and high rigidity. Immobilization on Seplife® EMC1040 is performed by adsorption and is particularly indicated for lipase immobilization for food applications. The enzyme activity that can be achieved on Seplife® EMC1040 is higher than 9000PLU/g. The robustness of the resin allows application in packed bed reactors and use at relatively high temperatures without significant change in reactor volume.

**•Physical and Chemical Characteristics**

Matrix	Divinylbenzene/acrylate
Appearance	White spherical beads
Functional group	None
Moisture content (%)	55.0-65.0
Particle size (µm)	300-700
Pore size (Å)	150-300
Surface area (m <sup>2</sup> /g)	≥80
Chemical stability	The resin is insoluble in water, acid, alkali and methanol, ethanol, acetone, toluene, n-heptane, DMSO and other organic solvents.

**•Key features and Benefits**

- Easy immobilization By 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 2-25°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® EMC1020	PC009M01	500g
	PC009M02	1kg
	PC009M03	5kg
	PC009M04	10kg
	PC009M05	25kg

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