Product information
Produktinformation

1.16961 Fractogel® EMD Epoxy (M)

Affinity chromatography (AC)

Fractogel® EMD Epoxy activated support is a cross-linked polymethacrylate resin modified according to the tentacle technology. The Fractogel® beads have a high mechanical and chemical stability. The functional groups are bonded via linear polymer chains.

Fractogel® EMD Epoxy is suitable for coupling of low molecular weight ligands and pH stable proteins. The epoxyde reacts with primary amino groups, hydroxyl, and sulfhydryl groups. The resulting affinity matrix is very stable, due to the ether bonding of the ligand. The activated support can be stored as dry powder for a long time. Elution of the proteins can be performed using stepwise gradient or linear gradient of increasing salt concentrations. In all cases the elution depends on the immobilized ligand.

Properties of the activated tentacle sorbent

Cat. No.	1.16961
Bulk material	10 g, 100 g
Particle size	40 – 90 µm
Type of chromatography	Immobilization of low molecular weight ligands and proteins
Functional group	Epoxy group
Ligand density	0.5 – 1.0 mmol/g
Immobilization condition	pH 8 – 12, up to 40°C, ≈ 24 h
pH stability range	pH 2 up to pH 12
Elution conditions	Competitive, high salt, low pH, depending on ligands
Swelling factor	1 g dried material gives about 3.5 ml final gel volume
Pressure limit	20 bar
Operating temperature	4°C to room temperature
Storage, preservative	Dry powder, store at 4° – 8°C
Regeneration	Depending on ligands (0.5 M NaOH)
Sanitization	Depending on ligands
Linear flow rate	Up to 600 cm/h