

# Sepax Monomix MC30-Aminodiol Affinity Resin

**Sepax Monomix MC30-Aminodiol Affinity Resin:** 30  $\mu\text{m}$  narrowly dispersed polymethacrylate rigid base bead is functionalized with a polyhydroxylated surface coating layer that provides a bio-inert surface and shows low non-specific binding to biomolecules. Aminodiol group is then conjugated to bead surface through an innovative method (patent pending). The resulting affinity resin is applicable for the isolation and purification of boron-containing molecules including large biomolecules.

Monomix MC30-Aminodiol affinity resin and column fill gaps in existing purification technologies and cover both analytical market needs and industrial purification market needs. The key benefits are higher separation efficiency, higher purification throughput, and overall lower purification cost compared with conventional RP, IEX, and recrystallization purification.

- Specific binding to boron-containing molecules
- Provides efficient capture and release under mild and straight forward purification conditions, simplify subsequent purification steps and maximize overall production efficiency
- No need to use a lot of organic solvents. High biocompatibility: better maintain the biological activity of purified molecules
- Produce fewer chemical wastes (liquid and solid) which are easy to be treated. Reduce risk of safety and environmental pollution
- Chromatography medium and column can be cleaned and reused many times
- Excellent scalability. Provide prepacked analytical columns, semi-prep columns, prep columns and bulk loose resin
- Resin customization: can provide polymethyl methacrylate beads with 10, 15, 30 and 60  $\mu\text{m}$  bead size and other matrix beads
- Innovative chromatography medium and column, enable a platform affinity chromatography technology for boron-containing molecules purification
- Decreases process development time and enhances productivity



# Technical Specifications

	Monomix MC30-Aminodiol
Base Matrix	Hydrophilic polymethacrylate
Average Bead Size D50 (µm)	30
Bead Size Distribution	$D_{90}/D_{10} \leq 1.3$
Average Pore Size (Å)	500, 1000
Functional Group	Aminodiol
Max Linear Flow Rate (cm/hr)	1000
Operating Temperature (°C)	4-40
pH Stability	2-12
Operating Pressure (Large ID column, preparative)	$\leq 10$ bar (1 MPa)
Operating Pressure (Small ID column, analytical)	$\leq 50$ bar (5 MPa)
Mobile Phase Compatibility	Compatible with common salt buffers, organic/aqueous solutions (acetonitrile, ethanol, etc.), and common additives
Long-term Storage	Store in 20% ethanol aqueous solution, 2-25°C
CIP condition	0.5 M NaOH

*Note: Bead matrix, bead size, pore size can be customized*



# Order Information

## Monomix MC30-Aminodiol Affinity Resin & Column

Product	30µm, 500Å	30µm, 1000Å
Loose resin 20, 50 mL	282330500	282330950
4.6 x 50 mm, SS column	282330500-4605	282330950-4605
4.6 x 250 mm, SS column	282330500-4625	282330950-4625
7.8 x 300 mm, SS column	282330500-7830	282330950-7830

Notes: Other packing and column size are available upon request Shipping and storage solvent: 20% Ethanol in water.



For more information, visit our website: [Sepax-tech.com/Resin\\_Monomix\\_Aminodiol.php](http://Sepax-tech.com/Resin_Monomix_Aminodiol.php)