Amylose Resin High Flow

1-800-632-7799
info@neb.com
www.neb.com

E8022S 0151703200031

E8022S

15 ml **Lot: 0151703**

Store at 4°C **Exp: 3/20**

Description: Amylose Resin High Flow is a cross-linked affinity matrix used for the isolation of proteins fused to maltose-binding protein (MBP). This rigid matrix can be used in automated chromatography systems.

Supplied in: 20% ethanol.

Store at 4°C. After Use, Resin Should Be Stored In Column Buffer Plus 0.02% Sodium Azide Or 20% Ethanol.

Column Buffer:
20 mM Tris-HCl (pH 7.4)
0.2 M NaCl
1 mM EDTA

Optional:
1 mM DTT or
10 mM β-mercaptoethanol

Binding Capacity: 7.0 mg MBP2* -paramyosin ΔSal fusion protein/ml bed volume.

Quantitative Analysis: Crude extract from E. coli containing a plasmid that expresses a MBP2* -paramyosinΔSal fusion protein is passed over a 1 ml column at 4°C. The column is then washed with 10 column volumes of column buffer. The protein is eluted with column buffer plus 10 mM maltose. Electrophoresis on a 4–20% SDS-PAGE gel results in a single band.

Regeneration: The packed resin may be regenerated by the following wash sequence:

Water	3 column volumes
0.1% SDS	3 column volumes
Water	1 column volume
Column Buffer	5 column volumes

Column Hardware Pressure Limit: 0.5 MPa or 75 psi

Maximum recommended Flow Rate:
300 cm/hour

For a 1.6 cm column diameter: 10 ml/minute
For a 2.5 cm column diameter: 25 ml/minute

Usage Notes:

1. Amylose Resin column should be washed with 5 volumes of column buffer before each use.
2. For optimum performance, load crude extract at < 60 cm/hour.
3. When regenerating the column at 4°C, please note that 0.1% SDS can precipitate at that temperature. It is therefore recommended that the SDS solution be stored at room temperature until needed. The resin may be generated up to five times.
4. For a complete affinity purification protocol, download the pMAL Protein Fusion and Purification System technical bulletin (NEB #E8000) from www.neb.com.

CERTIFICATE OF ANALYSIS

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Column Hardware Pressure Limit: 0.5 MPa or 75 psi

Maximum recommended Flow Rate:
300 cm/hour

For a 1.6 cm column diameter: 10 ml/minute
For a 2.5 cm column diameter: 25 ml/minute

Usage Notes:

1. Amylose Resin column should be washed with 5 volumes of column buffer before each use.
2. For optimum performance, load crude extract at < 60 cm/hour.
3. When regenerating the column at 4°C, please note that 0.1% SDS can precipitate at that temperature. It is therefore recommended that the SDS solution be stored at room temperature until needed. The resin may be generated up to five times.
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