

New England Biolabs Product Specification

Product Name: Amylose Resin
Catalog #: E8021S/L
Shelf Life: 36 months
Storage Temp: 4°C
Specification Version: PS-E8021S/L v2.0
Effective Date: 01 Nov 2021

Assay Name/Specification (minimum release criteria)

Functional Binding Assay (Resin Binding Capacity) - Amylose Resin (1 ml) was packed into a column and equilibrated with column buffer. Crude extract from *E. coli* containing a plasmid that expresses a MBP5*-paramyosinΔSal fusion protein (8 ml) was then passed through the column at 25°C, then washed with column buffer and the target protein eluted with ≥4 ml of column buffer containing 10 mM maltose. Binding capacity was determined to be >4 mg MBP5*-paramyosinΔSal /ml of resin based on A280 of the eluate.

Functional Binding Assay (Resin Binding Specificity) - Amylose Resin (1 ml) was packed into a column and equilibrated with column buffer. Crude extract from *E. coli* containing a plasmid that expresses a MBP5*-paramyosinΔSal fusion protein (8 ml) was then passed through the column at 25°C, and then washed with column buffer. The target protein was eluted with ≥4 ml of column buffer containing 10 mM maltose. SDS-PAGE of the eluate on a 10-20% Tris-Glycine gel confirms low non-specific binding of extract proteins and high isolation of target.

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Date 01 Nov 2021

Derek Robinson
Director, Quality Control

