

## New England Biolabs Product Specification

*Product Name:* Amylose Resin High Flow  
*Catalog #:* E8022S/L  
*Shelf Life:* 36 months  
*Storage Temp:* 4°C  
*Specification Version:* PS-E8022S/L v2.0  
*Effective Date:* 04 Feb 2021

### Assay Name/Specification (minimum release criteria)

**Functional Binding Assay (Resin Binding Capacity)** - Amylose Resin High Flow ( 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 High Flow ( 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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