Product Name: Amylose Resin
Catalog Number: E8021L
Packaging Lot Number: 10105390
Expiration Date: 02/2024
Storage Temperature: 4°C
Specification Version: PS-E8021S/L v1.0

Amylose Resin Component List

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>E8021LVIAL</td>
<td>Amylose Resin</td>
<td>10097168</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Assay Name/Specification | Lot # 10105390

**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.

**Pass**

**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.

**Pass**

This product has been tested and shown to be in compliance with all specifications.

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Michael Sproviero  
Production Scientist  
16 Apr 2021

Michael Tonello  
Packaging Quality Control Inspector  
16 Apr 2021