

## New England Biolabs Certificate of Analysis

Product Name: Chitin Resin  
Catalog Number: S6651S  
Lot Number: 10055355  
Expiration Date: 09/2022  
Storage Temperature: 4°C  
Specification Version: PS-S6651S/L v1.0

Chitin Resin Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S6651SVIAL	Chitin Resin	10048385	Pass

Assay Name/Specification	Lot # 10055355
<p><b>Functional Binding Assay (Resin Binding Specificity)</b> Chitin Resin ( 1 ml ) was packed into a column and equilibrated with column buffer. Crude extract from E. coli containing a plasmid that expresses a SNAP-intein-chitin binding domain fusion protein ( 8 ml ) was then passed through the column at 25°C, and then washed with column buffer. The target protein was eluted through cleavage of the fusion protein during overnight incubation with column buffer containing 50 mM DTT at 4°C. 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.</p>	Pass
<p><b>Functional Binding Assay (Resin Binding Capacity)</b> Chitin Resin ( 1 ml ) was packed into a column and equilibrated with column buffer. Crude extract from E. coli containing a plasmid that expresses a SNAP-intein-chitin binding domain fusion protein ( 8 ml ) was then passed through the column at 25°C, then washed with column buffer and the target protein eluted through cleavage of the fusion protein during overnight incubation with column buffer containing 50 mM DTT at 4°C. Binding capacity was determined to be &gt;2 mg SNAP protein /ml of resin based on A280 of the eluate.</p>	Pass

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



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Brad Landgraf  
Production Scientist  
05 Sep 2019



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Michael Tonello  
Packaging Quality Control Inspector  
23 Sep 2019