

## New England Biolabs Certificate of Analysis

**Product Name:** Chitin Resin  
**Catalog Number:** S6651L  
**Lot Number:** 10018082  
**Expiration Date:** 10/2021  
**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
S6651LVIAL	Chitin Resin	10018083	Pass

Assay Name/Specification	Lot # 10018082
<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>	<b>Pass</b>
<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>	<b>Pass</b>

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



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Brad Landgraf  
Production Scientist  
12 Oct 2018



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Michael Tonello  
Packaging Quality Control Inspector  
16 Oct 2018