

## New England Biolabs Certificate of Analysis

*Product Name:* Chitin Resin  
*Catalog #:* S6651S/L  
*Lot #:* 0261803  
*Assay Date:* 03/2018  
*Expiration Date:* 03/2021  
*Storage Temp:* 4°C  
*Specification Version:* PS-S6651S/L v1.0  
*Effective Date:* 15 Jun 2018

Assay Name/Specification (minimum release criteria)	Lot #0261803
<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 <i>E. coli</i> 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 <i>E. coli</i> 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>



Authorized by  
Derek Robinson  
15 Jun 2018



Inspected by  
Michael Sproviero  
22 Mar 2018

