


## New England Biolabs Certificate of Analysis

Product Name: Chitin Resin  
Catalog Number: S6651L  
Packaging Lot Number: 10066286  
Expiration Date: 02/2023  
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	10066285	Pass

Assay Name/Specification	Lot # 10066286
<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
<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

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



Michael Spfoviero  
Production Scientist  
07 Feb 2020



Michael Tonello  
Packaging Quality Control Inspector  
07 Feb 2020