

## New England Biolabs Certificate of Analysis

**Product Name:** Chitin Resin  
**Catalog Number:** S6651S  
**Packaging Lot Number:** 10177986  
**Expiration Date:** 10/2025  
**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	10163668	Pass

Assay Name/Specification	Lot # 10177986
<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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



---

Brad Landgraf  
Production Scientist  
26 Sep 2022



---

Michael Tonello  
Packaging Quality Control Inspector  
26 Jan 2023