

## New England Biolabs Certificate of Analysis

**Product Name:** Chitin Resin  
**Catalog Number:** S6651S  
**Packaging Lot Number:** 10163669  
**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 # 10163669 |
|---|----------------|
| <p><b>Functional Binding Assay (Resin Binding Capacity)</b><br/>           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><br/>           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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26 Sep 2022



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Josh Hersey  
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04 Oct 2022