

New England Biolabs Certificate of Analysis

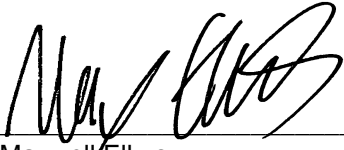
Product Name: Chitin Resin
Catalog Number: S6651S
Packaging Lot Number: 10255249
Expiration Date: 11/2026
Storage Temperature: 4°C
Specification Version: PS-S6651S/L v1.0

| Chitin Resin Component List | | | |
|-----------------------------|-----------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| S6651SVIAL | Chitin Resin | 10209975 | Pass |

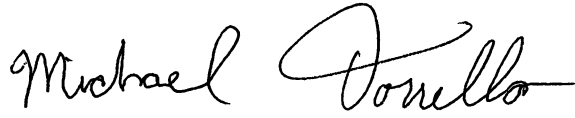
| Assay Name/Specification | Lot # 10255249 |
|---|----------------|
| <p>Functional Binding Assay (Resin Binding Capacity) Chitin Resin (1 ml) was packed into a column and equilibrated with column buffer. Crude extract from E. coli containing a plasmid that expresses a SNAP-intein-chitin binding domain 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 >2 mg SNAP protein /ml of resin based on A280 of the eluate.</p> | Pass |
| <p>Functional Binding Assay (Resin Binding Specificity) 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.

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Maxwell Elkus
Production Scientist
13 Nov 2023



Michael Tonello
Packaging Quality Control Inspector
27 Aug 2024