

New England Biolabs Product Specification

Product Name: Chitin Resin
Catalog #: S6651S/L
Shelf Life: 36 months
Storage Temp: 4°C
Specification Version: PS-S6651S/L v1.0
Effective Date: 15 Jun 2018

Assay Name/Specification (minimum release criteria)

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.

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.



Date 15 Jun 2018

Derek Robinson
Director of Quality Control

