### New England Biolabs

**Product Specification**

**Product Name:** Streptavidin Magnetic Beads

**Catalog #:** S1420S

**Concentration:** 4 mg/ml

**Shelf Life:** 36 months

**Storage Temp:** 4°C

**Storage Conditions:** 0.05 % NaN₃, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)

**Specification Version:** PS-S1420S v2.0

**Effective Date:** 25 Oct 2021

<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
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<tbody>
<tr>
<td><strong>Binding Capacity (Magnetic Beads)</strong> - Streptavidin Magnetic Beads (500 µg) were equilibrated and incubated with 100 µl of 5 µM 5’-Biotin-dT25-FAM-3’ for 1 hour at 25°C. Binding capacity was determined to be &gt;500 pmol of oligo per mg of beads.</td>
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<tr>
<td><strong>Functional Binding Assay (Qualitative)</strong> - Streptavidin Magnetic Beads (500 µg) were equilibrated and incubated with 200 µl of Biotin Mouse Anti-Human IgG then washed and incubated with 500 µl Human Serum IgG for 1 hour at 25°C, then washed, eluted and evaluated by Tris-Glycine gel to confirm low non-specific binding of extract proteins and high isolation of target.</td>
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<tr>
<td><strong>Non-Specific DNase Activity (16 hour, Buffer)</strong> - A 50 µl reaction in Streptavidin Magnetic Bead Storage Buffer containing 1 µg of PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</td>
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<tr>
<td><strong>RNase Activity (Extended Digestion)</strong> - A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Streptavidin Magnetic Beads is incubated at 37°C. After incubation for 16 hours, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</td>
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**Derek Robinson**

Director, Quality Control

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Date 25 Oct 2021