# New England Biolabs

## Product Specification

**Product Name:**  
Goat Anti-Rat IgG Magnetic Beads

**Catalog #:**  
S1433S

**Concentration:**  
20 mg/ml

**Shelf Life:**  
36 months

**Storage Temp:**  
4°C

**Storage Conditions:**  
0.02 % NaN₃, 0.05 % Tween® 20, 0.1 % BSA, 1 X PBS, (pH 7.4 @ 25°C)

**Specification Version:**  
PS-S1433S v2.0

**Effective Date:**  
25 Oct 2021

<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Binding Capacity (Magnetic Beads)</strong> - Goat Anti-Rat IgG Magnetic Beads (1 mg) were equilibrated and incubated with 200 µl of &gt;0.5 mg/ml Purified Rat IgG for 1 hour at 25°C, then washed and the Rat IgG eluted. Binding capacity was determined to be &gt;5 µg of Rat IgG per mg of beads.</td>
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<td><strong>Functional Binding Assay (Qualitative)</strong> - Goat Anti-Rat IgG Magnetic Beads (1 mg) were equilibrated and incubated with 500 µl of Serum containing Rat 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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<td><strong>Non-Specific DNase Activity (16 hour, Buffer)</strong> - A 50 µl reaction in Goat Anti-Rat IgG 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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<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 Goat Anti-Rat IgG 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

Date  
25 Oct 2021