

## New England Biolabs Product Specification

*Product Name:* Goat Anti-Mouse IgG Magnetic Beads  
*Catalog #:* S1431S  
*Concentration:* 20 mg/ml  
*Shelf Life:* 36 months  
*Storage Temp:* 4°C  
*Storage Conditions:* 0.02 % NaN<sub>3</sub>, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)  
*Specification Version:* PS-S1431S v1.0  
*Effective Date:* 15 Aug 2018

### Assay Name/Specification (minimum release criteria)

**Binding Capacity (Magnetic Beads)** - Goat Anti-Mouse IgG Magnetic Beads ( 1 mg ) were equilibrated and incubated with 200 µl of >0.5 mg/ml Purified Mouse IgG for 1 hour at 25°C, then washed and the Mouse IgG eluted. Binding capacity was determined to be >5 µg of Mouse IgG per mg of beads.

**Functional Binding Assay (Qualitative)** - Goat Anti-Mouse IgG Magnetic Beads ( 1 mg ) were equilibrated and incubated with 500 µl of Serum containing Mouse 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.

**Non-Specific DNase Activity (16 hour, Buffer)** - A 50 µl reaction in Goat Anti-Mouse 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.

**RNase Activity (Buffer)** - A 10 µl reaction in Goat Anti-Mouse IgG Magnetic Bead Storage Buffer containing 40 ng of a 300 base single-stranded RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.



Date 15 Aug 2018

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Director of Quality Control

