

## New England Biolabs Certificate of Analysis

**Product Name:** Goat Anti-Rat IgG Magnetic Beads  
**Catalog Number:** S1433S  
**Concentration:** 20 mg/ml  
**Lot Number:** 10052510  
**Expiration Date:** 09/2022  
**Storage Temperature:** 4°C  
**Storage Conditions:** 0.02 % NaN<sub>3</sub>, 0.05 % Tween® 20, 0.1 % BSA, 1 X PBS, (pH 7.4 @ 25°C)  
**Specification Version:** PS-S1433S v1.0

| Goat Anti-Rat IgG Magnetic Beads Component List |                                  |            |                      |
|---|----------------------------------|------------|----------------------|
| NEB Part Number                                 | Component Description            | Lot Number | Individual QC Result |
| S1433SVIAL                                      | Goat Anti-Rat IgG Magnetic Beads | 10056025   | Pass                 |

| Assay Name/Specification   | Lot # 10052510 |
|--|----------------|
| <b>Binding Capacity (Magnetic Beads)</b><br>Goat Anti-Rat IgG Magnetic Beads ( 1 mg ) were equilibrated and incubated with 200 µl of >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 >5 µg of Rat IgG per mg of beads.                                   | Pass           |
| <b>Functional Binding Assay (Qualitative)</b><br>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. | Pass           |
| <b>Non-Specific DNase Activity (16 hour, Buffer)</b><br>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.                     | Pass           |
| <b>RNase Activity (Buffer)</b><br>A 10 µl reaction in Goat Anti-Rat 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.                                      | Pass           |

This product has been tested and shown to be in compliance with all specifications.



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Michael Spfoviero  
Production Scientist  
18 Sep 2019



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Michael Tonello  
Packaging Quality Control Inspector  
18 Sep 2019