

## New England Biolabs Certificate of Analysis

**Product Name:** Goat Anti-Rat IgG Magnetic Beads  
**Catalog Number:** S1433S  
**Concentration:** 20 mg/ml  
**Packaging Lot Number:** 10115987  
**Expiration Date:** 08/2024  
**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	10118883	Pass

Assay Name/Specification	Lot # 10115987
<b>Binding Capacity (Magnetic Beads)</b> 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.	<b>Pass</b>
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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.	<b>Pass</b>
<b>Functional Binding Assay (Qualitative)</b> 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.	<b>Pass</b>
<b>RNase Activity (Buffer)</b> 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.	<b>Pass</b>

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

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Production Scientist  
19 Aug 2021



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Josh Hersey  
Packaging Quality Control Inspector  
19 Aug 2021