

## New England Biolabs Certificate of Analysis

**Product Name:** Protein G Magnetic Beads  
**Catalog Number:** S1430V  
**Packaging Lot Number:** 10180281  
**Expiration Date:** 02/2026  
**Storage Temperature:** 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-S1430S v2.0

Protein G Magnetic Beads Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1430AVIAL	Protein G Magnetic Beads	10179473	Pass

Assay Name/Specification	Lot # 10180281
<b>RNase Activity (Extended Digestion)</b> A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Protein G Magnetic Beads is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
<b>Binding Capacity (Magnetic Beads)</b> Protein G Magnetic Beads ( 100 µl ) were equilibrated and incubated with 500 µl of Human Serum IgG for 1 hour at 25°C, then washed and the IgG eluted. Binding capacity was determined to be >280 µg of IgG per ml of beads.	Pass
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in Protein G 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>Functional Binding Assay (Qualitative)</b> Protein G Magnetic Beads ( 100 µl ) were equilibrated and incubated with 500 µl of 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.	Pass

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

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*Beth M. Paschal*

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Beth Paschal  
Production Scientist  
07 Feb 2023



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Josh Hersey  
Packaging Quality Control Inspector  
09 Feb 2023