

New England Biolabs Certificate of Analysis

Product Name: Protein G Magnetic Beads
Catalog Number: S1430S
Packaging Lot Number: 10165700
Expiration Date: 09/2025
Storage Temperature: 4°C
Storage Conditions: 0.02% NaN₃, 0.1 % BSA, 0.05 % Tween® 20, 1 X PBS, (pH 7.4 @ 25°C)
Specification Version: PS-S1430S v2.0

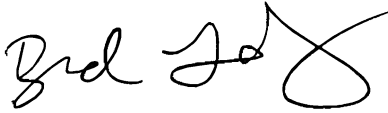
Protein G Magnetic Beads Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1430SVIAL	Protein G Magnetic Beads	10162931	Pass

Assay Name/Specification	Lot # 10165700
Functional Binding Assay (Qualitative) 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
Non-Specific DNase Activity (16 hour, Buffer) 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
Binding Capacity (Magnetic Beads) 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
RNase Activity (Extended Digestion) 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

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

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Brad Landgraf
Production Scientist
16 Sep 2022



Josh Hersey
Packaging Quality Control Inspector
26 Sep 2022