NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name: *Protein G Magnetic Beads*
Catalog Number: *S1430V*
Packaging Lot Number: *10184622*
Expiration Date: *03/2026*
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**
S1430AVIAL	Protein G Magnetic Beads	10183682	**Pass**

Assay Name/Specification	Lot # 10184622
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**
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**
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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Maxwell Elkus
Production Scientist
17 Mar 2023

Michael Tonello
Packaging Quality Control Inspector
17 Mar 2023