

## New England Biolabs Certificate of Analysis

**Product Name:** Protein G Magnetic Beads  
**Catalog Number:** S1430S  
**Lot Number:** 10041605  
**Expiration Date:** 11/2021  
**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 v1.0

| Protein G Magnetic Beads Component List |                          |            |                      |
|---|--------------------------|------------|----------------------|
| NEB Part Number                         | Component Description    | Lot Number | Individual QC Result |
| S1430SVIAL                              | Protein G Magnetic Beads | 10030076   | Pass                 |

| Assay Name/Specification  | Lot # 10041605 |
|---|----------------|
| <b>Binding Capacity (Magnetic Beads)</b><br>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>Functional Binding Assay (Qualitative)</b><br>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           |
| <b>Non-Specific DNase Activity (16 hour, Buffer)</b><br>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>RNase Activity (Buffer)</b><br>A 10 µl reaction in Protein G 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.

*Alicia Bielik*

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Alicia Bielik  
Production Scientist  
30 Nov 2018

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
08 May 2019