

## New England Biolabs Certificate of Analysis

**Product Name:** Protein G Magnetic Beads  
**Catalog Number:** S1430S  
**Lot Number:** 10045510  
**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 # 10045510
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<b>RNase Activity (Buffer)</b> 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.	<b>Pass</b>

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



Alicia Bielik  
Production Scientist  
30 Nov 2018



Josh Hersey  
Packaging Quality Control Inspector  
06 Jun 2019