

## New England Biolabs Certificate of Analysis

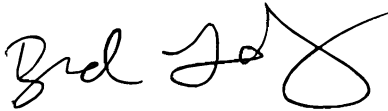
**Product Name:** *Streptavidin Magnetic Beads*  
**Catalog Number:** *S1420S*  
**Concentration:** *4 mg/ml*  
**Lot Number:** *10054890*  
**Expiration Date:** *09/2022*  
**Storage Temperature:** *4°C*  
**Storage Conditions:** *0.05 % NaN<sub>3</sub>, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)*  
**Specification Version:** *PS-S1420S v1.0*

Streptavidin Magnetic Beads Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1420SVIAL	Streptavidin Magnetic Beads	10051761	Pass

Assay Name/Specification	Lot # 10054890
<b>RNase Activity (Buffer)</b> A 10 µl reaction in Streptavidin 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>
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in Streptavidin 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>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in Streptavidin 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>Binding Capacity (Magnetic Beads)</b> Streptavidin Magnetic Beads ( 500 µg ) were equilibrated and incubated with 100 µl of 5 µM 5'-Biotin-dT25-FAM-3' for 1 hour at 25°C. Binding capacity was determined to be >500 pmol of oligo per mg of beads.	<b>Pass</b>
<b>Functional Binding Assay (Qualitative)</b> Streptavidin Magnetic Beads ( 500 µg ) were equilibrated and incubated with 200 µl of Biotin Mouse Anti-Human IgG then washed and incubated with 500 µl Human Serum IgG	<b>Pass</b>

Assay Name/Specification	Lot # 10054890
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.	

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



Brad Landgraf  
Production Scientist  
30 Sep 2019



Josh Hersey  
Packaging Quality Control Inspector  
01 Oct 2019