

## New England Biolabs Certificate of Analysis

**Product Name:** *Hydrophilic Streptavidin Magnetic Beads*  
**Catalog Number:** *S1421S*  
**Concentration:** *4 mg/ml*  
**Lot Number:** *10028316*  
**Expiration Date:** *04/2021*  
**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-S1421S v1.0*

Hydrophilic Streptavidin Magnetic Beads Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1421SVIAL	Hydrophilic Streptavidin Magnetic Beads	0091804	Pass

Assay Name/Specification	Lot # 10028316
<b>Binding Capacity (Magnetic Beads)</b> Hydrophilic 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 >400 pmol of oligo per mg of beads.	Pass
<b>Functional Binding Assay (Qualitative)</b> Hydrophilic 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 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> A 50 µl reaction in Hydrophilic 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.	Pass
<b>RNase Activity (Buffer)</b> A 10 µl reaction in Hydrophilic 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.	Pass

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



Michael Sprioviero  
Production Scientist  
07 Jan 2019



Michael Tonello  
Packaging Quality Control Inspector  
07 Jan 2019