

## New England Biolabs Certificate of Analysis

**Product Name:** Hydrophilic Streptavidin Magnetic Beads  
**Catalog Number:** S1421S  
**Concentration:** 4 mg/ml  
**Packaging Lot Number:** 10080134  
**Expiration Date:** 07/2023  
**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	10077794	Pass

Assay Name/Specification	Lot # 10080134
<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.

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17 Aug 2020



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17 Aug 2020