

New England Biolabs Certificate of Analysis

Product Name: *Hydrophilic Streptavidin Magnetic Beads*
Catalog Number: *S1421S*
Concentration: *4 mg/ml*
Packaging Lot Number: *10225333*
Expiration Date: *11/2026*
Storage Temperature: *4°C*
Storage Conditions: *0.05 % NaN₃, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)*
Specification Version: *PS-S1421S v3.0*

| Hydrophilic Streptavidin Magnetic Beads Component List | | | |
|--------------------------------------------------------|-----------------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| S1421SVIAL | Hydrophilic Streptavidin Magnetic Beads | 10213835 | Pass |

| Assay Name/Specification | Lot # 10225333 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <p>Binding Capacity (Magnetic Beads) 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.</p> | Pass |
| <p>Functional Binding Assay (Qualitative) 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.</p> | Pass |
| <p>Non-Specific DNase Activity (16 hour, Buffer) 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.</p> | Pass |
| <p>RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Hydrophilic Streptavidin Magnetic Beads is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p> | Pass |

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Maxwell Elkus
Production Scientist
08 Dec 2023



Josh Hersey
Packaging Quality Control Inspector
24 Jan 2024