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## New England Biolabs Certificate of Analysis

Product Name: Hydrophilic Streptavidin Magnetic Beads

Catalog Number: S1421S
Concentration: 4 mg/ml
Packaging Lot Number: 10241689
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 |   |            |                      |  |
|--|---|------------|----------------------|--|
| <b>NEB Part Number</b>                                 | Component Description                   | Lot Number | Individual QC Result |  |
| S1421SVIAL   | Hydrophilic Streptavidin Magnetic Beads | 10213835   | Pass                 |  |

| Assay Name/Specification   | Lot # 10241689 |
|--|----------------|
| Binding Capacity (Magnetic Beads) Hydrophilic Streptavidin Magnetic Beads ( $500~\mu g$ ) were equilibrated and incubated with $100~\mu l$ of $5~\mu M$ 5'-Biotin-dT25-FAM-3' for 1 hour at $25^{\circ}$ C. Binding capacity was determined to be >400 pmol of oligo per mg of beads.  | Pass           |
| 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. | Pass           |
| 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.  | Pass           |
| 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.                                     | Pass           |



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

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Maxwell/Elkus
Production Scientist

08 Dec 2023

Michael Tonello

Packaging Quality Control Inspector

14 May 2024



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