

New England Biolabs Certificate of Analysis

Product Name: Streptavidin Magnetic Beads
Catalog Number: S1420S
Concentration: 4 mg/ml
Packaging Lot Number: 10090699
Expiration Date: 10/2023
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-S1420S v1.0


| Streptavidin Magnetic Beads Component List | | | |
|--|-----------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| S1420SVIAL | Streptavidin Magnetic Beads | 10085988 | Pass |

| Assay Name/Specification | Lot # 10090699 |
|--|----------------|
| Binding Capacity (Magnetic Beads) 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. | Pass |
| Functional Binding Assay (Qualitative) 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 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 |
| Non-Specific DNase Activity (16 hour, Buffer) 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. | Pass |
| RNase Activity (Buffer) A 10 µl reaction in Streptavidin Magnetic Bead Storage Buffer containing 40 ng of a | Pass |

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| 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. | |

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

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Michael Sprioviero
Production Scientist
04 Dec 2020



Michael Tonello
Packaging Quality Control Inspector
04 Dec 2020