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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: 10133528
Expiration Date: 11/2024
Storage Temperature: 4°C

Storage Conditions: 0.02 % NaN3, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)

Specification Version: PS-S1421S v2.0

Hydrophilic Streptavidin Magnetic Beads Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1421SVIAL	Hydrophilic Streptavidin Magnetic Beads	10126254	Pass	

Assay Name/Specification	Lot # 10133528
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
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
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
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.	Pass



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

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Michael Sproviero

Production Scientist

21 Ján 2022

Josh Hersey

Packaging Quality Control Inspector

21 Jan 2022



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