

New England Biolabs Certificate of Analysis

Product Name: *Hydrophilic Streptavidin Magnetic Beads*
Catalog Number: *S1421S*
Concentration: *4 mg/ml*
Packaging Lot Number: *10092469*
Expiration Date: *07/2023*
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 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 # 10092469
<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 (Buffer) 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.</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.



Michael Sprioviro
Production Scientist
15 Dec 2020



Michael Tonello
Packaging Quality Control Inspector
15 Dec 2020