

New England Biolabs Certificate of Analysis

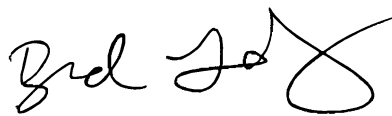
Product Name: Streptavidin Magnetic Beads
Catalog Number: S1420S
Concentration: 4 mg/ml
Unit Definition:
Lot Number: 10018080
Expiration Date: 09/2021
Storage Temperature: 4°C
Storage Conditions: 0.05 % NaN₃, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)
Specification Version: PS-S1420S v1.0

Streptavidin Magnetic Beads Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1420SVIAL	Streptavidin Magnetic Beads	10018081	Pass

Assay Name/Specification	Lot # 10018080
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)	Pass

Assay Name/Specification	Lot # 10018080
A 10 µl reaction in 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.	

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



Brad Landgraf
Production Scientist
07 Sep 2018



Michael Tonello
Packaging Quality Control Inspector
12 Oct 2018