NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Streptavidin Magnetic Beads*
Catalog Number:	*S1420S*
Concentration:	*4 mg/ml*
Packaging Lot Number:	*10108698*
Expiration Date:	*03/2024*
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	10093450	**Pass**

Assay Name/Specification	Lot # 10108698
RNase Activity (Buffer) 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.	**Pass**
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	**Pass**

nqa ISO 9001 Registered Quality Management
nqa ISO 13485 Registered Medical Devices
nqa ISO 14001 Registered Environmental Management

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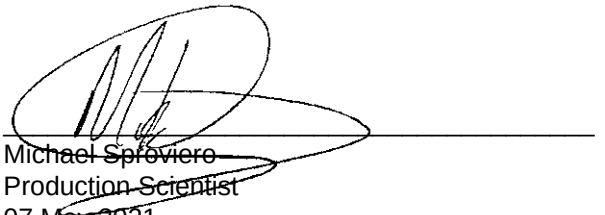
Assay Name/Specification	Lot # 10108698
PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	

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 Sproviero
Production Scientist
07 May 2021

Josh Hersey
Packaging Quality Control Inspector
07 May 2021