NEW ENGLAND BioLabs Inc.
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Ipswich, MA 01938-2723
Tel 978-927-5054
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www.neb.com
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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:	*10082850*
Expiration Date:	*09/2023*
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	10082851	**Pass**

Assay Name/Specification	**Lot # 10082850**
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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Assay Name/Specification	Lot # 10082850
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.

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
04 Sep 2020

Michael Tonello
Packaging Quality Control Inspector
04 Sep 2020