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New England Biolabs
Certificate of Analysis

Product Name:	*Streptavidin Magnetic Beads*
Catalog #:	*S1420S*
Concentration:	*4 mg/ml*
Lot #:	*0251710*
Assay Date:	*10/2017*
Expiration Date:	*10/2020*
Storage Temp:	*4°C*
Storage Conditions:	*0.05 % NaN_3, 0.1 % BSA, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)*
Specification Version:	*PS-S1420S v1.0*
Effective Date:	*02 Jan 2018*

Assay Name/Specification (minimum release criteria)	**Lot #0251710**
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**
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**

* *The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.*

Authorized by
Derek Robinson
02 Jan 2018

Inspected by
Brad Landgraf
15 Nov 2017

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