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New England Biolabs Product Specification

Product Name: Streptavidin Magnetic Beads

Catalog #: S1420S
Concentration: 4 mg/ml
Shelf Life: 36 months
Storage Temp: 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
Effective Date: 21 Dec 2017

Assay Name/Specification (minimum release criteria)

Binding Capacity (Magnetic Beads) - Streptavidin Magnetic Beads ($500~\mu g$) were equilibrated and incubated with $100~\mu l$ of $5~\mu M$ 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.

Functional Binding Assay (Qualitative) - Streptavidin Magnetic Beads ($500 \, \mu g$) were equilibrated and incubated with $200 \, \mu l$ of Biotin Mouse Anti-Human IgG then washed and incubated with $500 \, \mu l$ 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.

Non-Specific DNase Activity (16 hour, Buffer) - A 50 μ l reaction in Streptavidin Magnetic Bead Storage Buffer containing 1 μ g 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.

RNase Activity (Buffer) - A 10 μ l 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.

Derek Robinson

Director of Quality Control







^{*} 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.