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New England Biolabs Certificate of Analysis

Product Name: Streptavidin
Catalog Number: N7021S
Concentration: 1 mg/ml
Packaging Lot Number: 10185470
Expiration Date: 04/2025
Storage Temperature: -20°C

Storage Conditions: 140 mM NaCl, 8 mM Sodium Phosphate, 2 mM Potassium Phosphate, 10 mM

KCI, (pH 7.4 @ 25°C)

Specification Version: PS-N7021S v2.0

Streptavidin Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N7021SVIAL	Streptavidin	10182277	Pass

Assay Name/Specification	Lot # 10185470
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 3 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 1 μg of Streptavidin incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 1 µg of Streptavidin incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (Single Stranded DNA Binding - FAM Labeled Oligo) A 20 µl reaction in NEBuffer 3 containing 3 µM FAM and Biotin-labeled 50-mer and a maximum of 1 µg of Streptavidin incubated for 5 minutes at 25°C produces a mobility shift in >95% of the starting material as determined by TBE gel electrophoresis and UV imaging.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3 containing 1 µg of Lambda DNA and a minimum of 1 µg of Streptavidin incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE)	Pass



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Bo Wu

Production Scientist

24 Mar 2023

Josh Hersey

Packaging Quality Control Inspector

11 Apr 2023



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