240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Product Specification

Product Name: ET SSB

Catalog #: M2401S

Concentration: 500 µg/ml

Unit Definition: N/A

Shelf Life: 24 months

Storage Temp: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM KCl, 0.1 mM EDTA, 50% Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M2401S v2.0
Effective Date: 23 Apr 2018

Assay Name/Specification (minimum release criteria)

Endonuclease Activity (Nicking) - A 50 μ l reaction in CutSmart® Buffer containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 5 μ g of ET SSB incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.

Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in CutSmart® Buffer containing 1 μ g of a mixture of single and double -stranded [3 H] *E. coli* DNA and a minimum of 20 μ g of ET SSB incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.

Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in CutSmart® Buffer containing 1 μ g of Lambda DNA and a minimum of 5 μ g of ET SSB incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Date 23 Apr 2018

Derek Robinson
Director of Quality Control





