

## New England Biolabs Certificate of Analysis

**Product Name:** ET SSB  
**Catalog Number:** M2401S  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Lot Number:** 10022001  
**Expiration Date:** 10/2020  
**Storage Temperature:** -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

ET SSB Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2401SVIAL	ET SSB	10022002	Pass

Assay Name/Specification	Lot # 10022001
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 µg of ET SSB incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 20 µg of ET SSB incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of 5 µg 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.	Pass

This product has been tested and shown to be in compliance with all specifications.

*Cathy Shea*

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Cathy Shea  
Production Scientist  
25 Oct 2018

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
29 Oct 2018