

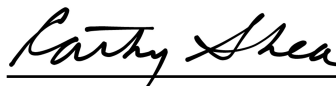
## New England Biolabs Certificate of Analysis

**Product Name:** ET SSB  
**Catalog #:** M2401S  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0081711  
**Assay Date:** 11/2017  
**Expiration Date:** 11/2019  
**Storage Temp:** -20°C  
**Storage Conditions:** 20 mM Tris-HCl, 200 mM NaCl, 1 mM EDTA, 0.5 mM DTT, 50 % Glycerol, (pH 7.5 @ 25°C)  
**Specification Version:** PS-M2401S v1.0  
**Effective Date:** 31 Oct 2017

Assay Name/Specification (minimum release criteria)	Lot #0081711
<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.	<b>Pass</b>
<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] <i>E. coli</i> DNA and a minimum of 20 µg of ET SSB incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	<b>Pass</b>
<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.	<b>Pass</b>



Authorized by  
Derek Robinson  
31 Oct 2017



Inspected by  
Cathy Shea  
01 Nov 2017

