

## New England Biolabs Certificate of Analysis

**Product Name:** *BsaXI*  
**Catalog #:** *R0609S/L*  
**Concentration:** *2,000 units/ml*  
**Unit Definition:** *One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 µl.*  
**Lot #:** *0151410*  
**Assay Date:** *10/2014*  
**Expiration Date:** *10/2016*  
**Storage Temp:** *-20 °C*  
**Storage Conditions:** *500 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.10% Triton X-100*  
**Specification Version:** *PS-R0609S/L v1.0*  
**Effective Date:** *05 Jun 2013*

Assay Name/Specification (minimum release criteria)	Lot #0151410
<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 units of BsaXI 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 2 Units of BsaXI 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  
05 Jun 2013



Inspected by  
Casey Madinger  
30 Oct 2014

