

## 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 #:* 0151401  
*Assay Date:* 01/2014  
*Expiration Date:* 01/2016  
*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 #0151401
<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  
29 Nov 2014

