

## New England Biolabs Certificate of Analysis

**Product Name:** BsaXI  
**Catalog Number:** R0609S  
**Concentration:** 2,000 U/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.  
**Packaging Lot Number:** 10257243  
**Expiration Date:** 08/2026  
**Storage Temperature:** -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

BsaXI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0609SVIAL	BsaXI	10251213	Pass
B6004SVIAL	rCutSmart™ Buffer	10245416	Pass

Assay Name/Specification	Lot # 10257243
<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 units of BsaXI 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 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.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Nancy Considine*

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Nancy Considine  
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03 Sep 2024

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
04 Sep 2024