

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 #: *0161512*
Assay Date: *12/2015*
Expiration Date: *12/2017*
Storage Temp: *-20°C*
Storage Buffer: *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: *16 Dec 2015*

Assay Name/Specification (minimum release criteria)	Lot #0161512
Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ 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.	Pass
Non-Specific DNase Activity (16 Hour) - 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



Authorized by
Derek Robinson
16 Dec 2015



Inspected by
Casey Madinger
18 Dec 2015

