

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Nt.BsmAI
Catalog Number:	R0121S
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to convert 1 μ g of supercoiled pBR322 DNA to open circular form in 1 hour at 37°C in a total reaction volume of 50 μ l.
Lot Number:	10043745
Expiration Date:	05/2021
Storage Temperature:	-20°C
Storage Conditions:	50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml BSA
Specification Version:	PS-R0121S/L v1.0

Nt.BsmAI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0121SVIAL	Nt.BsmAl	10043746	Pass	
B7204SVIAL	CutSmart® Buffer	10042966	Pass	

Assay Name/Specification	Lot # 10043745
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of Nt.BsmAI 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 pBR322 DNA and a minimum of 50 units of Nt.BsmAI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Nt.BsmAI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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





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Derek Robinson **Production Scientist** 08 May 2019

Josh Hersey Packaging Quality Control Inspector

16 May 2019

