

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 $\mu$ g of supercoiled pBR322 DNA to open circular form in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Packaging Lot Number:	10060544
Expiration Date:	11/2021
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.BsmAI	10060545	Pass		
B7204SVIAL	CutSmart® Buffer	10064406	Pass		

Assay Name/Specification	Lot # 10060544
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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 <sup>™</sup> 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.





*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

Anthony Francis Production Scientist 02 Dec 2019

d	/	•	•
1 ml	20		
BANA C			<u> </u>
grou g			- Contraction of the second se
p			

A Minichiello Packaging Quality Control Inspector 06 Feb 2020

