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New England Biolabs Certificate of Analysis

Product Name: Nt.BsmAl
Catalog Number: R0121S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to convert 1 µg

of supercoiled pBR322 DNA to open circular form in 1 hour at 37°C in

a total reaction volume of 50 μl.

Packaging Lot Number: 10237750
Expiration Date: 03/2026
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.BsmAl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0121SVIAL	Nt.BsmAl	10236046	Pass	
B6004SVIAL	rCutSmart™ Buffer	10235560	Pass	

Assay Name/Specification	Lot # 10237750
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of Nt.BsmAl 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.BsmAl 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.BsmAl 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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Ana Egana Production Scientist 25 Apr 2024 Michael Tonello

Packaging Quality Control Inspector 25 Apr 2024



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