

240 County Road Ipswich, MA 01938-2723

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## New England Biolabs Certificate of Analysis

Product Name:	MspJI
Catalog Number:	R0661S
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μg of pBR322 (dcm+) DNA in 1 hour at 37°C in a total reaction volume of 50 μl.
Packaging Lot Number:	10243458
Expiration Date:	05/2026
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 % Glycerol , 500 µg/ml BSA, (pH 7.4 @ 25°C)
Specification Version:	PS-R0661S/L v2.0

MspJI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S0538SVIAL	Enzyme Activator Solution	10243460	Pass	
R0661SVIAL	MspJI	10238060	Pass	
B6004SVIAL	rCutSmart™ Buffer	10238052	Pass	

Assay Name/Specification	Lot # 10243458
<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 15 units of MspJI 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 pBR322 DNA and a minimum of 5 units of MspJl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	Pass
Protein Purity Assay (SDS-PAGE) MspJI 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 29 May 2024

Michae Jowella

Michael Tonello Packaging Quality Control Inspector 29 May 2024

