

New England Biolabs Certificate of Analysis

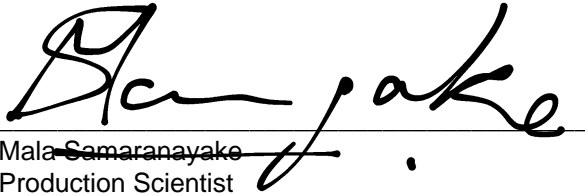
Product Name: MspJI
Catalog Number: R0661L
Concentration: 5,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of pBR322 (dcm+) DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10166271
Expiration Date: 10/2024
Storage Temperature: -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
S0538LVIAL	Enzyme Activator Solution	10166584	Pass
R0661LVIAL	MspJI	10166270	Pass
B6004SVIAL	rCutSmart™ Buffer	10165691	Pass

Assay Name/Specification	Lot # 10166271
Protein Purity Assay (SDS-PAGE) MspJI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
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 15 units of MspJI 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 5 units of MspJI 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

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

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Mala Samaranayake
Production Scientist
28 Oct 2022



Michael Tonello
Packaging Quality Control Inspector
02 Nov 2022