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New England Biolabs Certificate of Analysis

| Product Name: | MspJI |
|------------------------|---|
| Catalog #: | R0661S/L |
| Concentration: | 5,000 units/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to digest 1 μ g of pBR322 (dcm+) DNA in 1 hour at 37°C in a total reaction volume of 50 μ l. |
| Lot #: | 0021403 |
| Assay Date: | 03/2014 |
| Expiration Date: | 03/2016 |
| Storage Temp: | -20 °C |
| Storage Conditions: | 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μg/ml BSA |
| Specification Version: | PS-R0661S/L v1.0 |
| Effective Date: | 19 Aug 2013 |

| Assay Name/Specification (minimum release criteria) | Lot #0021403 |
|---|--------------|
| Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 4 containing 1 μ g of a mixture of single and double-stranded [³ H] <i>E. coli</i> 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 μ l reaction in NEBuffer 4 containing 1 μ g 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 |
| Protein Purity Assay (SDS-PAGE) - MspJI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection. | Pass |

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

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Authorized by Derek Robinson 19 Aug 2013



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Inspected by Mala Samaranayake 17 Mar 2014