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## New England Biolabs Certificate of Analysis

02 Nov 2015	
PS-M0272S/L v1.0	
300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μ	ıg/ml BSA
-20°C	
7/2016	
01/2016	
0431601	
One unit is defined as the amount of enzyme required to cleave T $\mu$ g of a plasmid containing multip 37°C in a total reaction volume of 50 $\mu$ l.	le Merbe sites in T nour at
	le MenDC sites in 1 hours et
10 000 units/ml	
M0272S/L	
McrBC	
	<ul> <li>M0272S/L</li> <li>10,000 units/ml</li> <li>One unit is defined as the amount of enzyme required to cleave 1 μg of a plasmid containing multip 37°C in a total reaction volume of 50 μl.</li> <li>0431601</li> <li>01/2016</li> <li>7/2016</li> <li>-20°C</li> <li>300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μ</li> </ul>

Assay Name/Specification (minimum release criteria)	Lot #0431601
<b>Endonuclease Activity (Nicking)</b> - A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 units of McrBC incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> - A 50 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g of a mixture of single and double-stranded [ <sup>3</sup> H] <i>E. coli</i> DNA and a minimum of 30 units of McrBC 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 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g of Lambda- HindIII DNA and a minimum of 30 units of McrBC incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	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 02 Nov 2015



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Inspected by Mala Samaranayake 22 Feb 2016