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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 μ g of a plasmid containing multip 37°C in a total reaction volume of 50 μ l.	le Merbe sites in T nour at
	le MenDC sites in 1 hours et
10 000 units/ml	
M0272S/L	
McrBC	
	 M0272S/L 10,000 units/ml 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. 0431601 01/2016 7/2016 -20°C 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μ

Assay Name/Specification (minimum release criteria)	Lot #0431601
Endonuclease Activity (Nicking) - 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
Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 2 containing 1 μ g of a mixture of single and double-stranded [³ 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
Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in NEBuffer 2 containing 1 μ 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