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New England Biolabs Certificate of Analysis

Product Name: McrBC
Catalog Number: M0272S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 µg

of a plasmid containing multiple McrBC sites in 1 hour at 37°C in a

total reaction volume of 50 μl.

Lot Number: 10038670
Expiration Date: 09/2019
Storage Temperature: -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-M0272S/L v1.0

McrBC Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0419SVIAL	GTP	10041216	Pass
N0418SVIAL	McrBC Substrate	0201805	Pass
M0272SVIAL	McrBC	10038671	Pass
B9000SVIAL	BSA, Molecular Biology Grade	10028759	Pass
B7002SVIAL	NEBuffer™ 2	10033147	Pass

Assay Name/Specification	Lot # 10038670	
Endonuclease Activity (Nicking)	Pass	
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.		
Exonuclease Activity (Radioactivity Release)	Pass	
A 50 μl reaction in NEBuffer 2 containing 1 μg of a mixture of single and		
double-stranded [³ H] E. coli DNA and a minimum of 30 units of McrBC incubated for 4		
hours at 37°C releases <0.1% of the total radioactivity.		
Non-Specific DNase Activity (16 Hour)	Pass	
A 50 μl reaction in NEBuffer 2 containing 1 μg 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.		



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

Tony Spear-Alfonso Production Scientist

14 Nov 2018

Michael Tonello

Packaging Quality Control Inspector

02 Apr 2019