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## New England Biolabs Certificate of Analysis

Product Name: McrBC
Catalog Number: M0272L
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.

Packaging Lot Number: 10092210
Expiration Date: 06/2021
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			
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result
N0419SVIAL	GTP	10092216	Pass
N0418SVIAL	McrBC Substrate	10092215	Pass
M0272LVIAL	McrBC	10092211	Pass
B9000SVIAL	BSA, Molecular Biology Grade	10082650	Pass
B7002SVIAL	NEBuffer™ 2	10077811	Pass

Assay Name/Specification	Lot # 10092210
Non-Specific DNase Activity (16 Hour) 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.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [ ³H] 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.	Pass
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



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

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Mala-Samaranayake Production Scientist

14 Jan 2021

Michael Tonello

Packaging Quality Control Inspector

14 Jan 2021