

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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: 10073951
Expiration Date: 10/2020
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>	Component Description	Lot Number	Individual QC Result
N0419SVIAL	GTP	10073953	Pass
N0418SVIAL	McrBC Substrate	0201905	Pass
M0272LVIAL	McrBC	10073952	Pass
B9000SVIAL	BSA, Molecular Biology Grade	10057616	Pass
B7002SVIAL	NEBuffer™ 2	10074105	Pass

Assay Name/Specification	Lot # 10073951
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.

Mala<del>-Samaranayake</del>

Production Scientist 24 Apr 2020

Josh Hersey

Packaging Quality Control Inspector

24 Apr 2020