

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: 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.

Packaging Lot Number: 10119195 Expiration Date: 03/2022 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	10106195	Pass
N0418SVIAL	McrBC Substrate	10106194	Pass
M0272SVIAL	McrBC	10119193	Pass
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10115120	Pass
B7002SVIAL	NEBuffer™ 2	10111608	Pass

Assay Name/Specification	Lot # 10119195
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%	Pass
conversion to the nicked form as determined by agarose gel electrophoresis.	
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
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



M0272S / Lot: 10119195

Page 1 of 2



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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Mala-Samaranayako

Production Scientist

14 Sep 2021

Michael Tonello

Packaging Quality Control Inspector

14 Sep 2021