NEW ENGLAND BioLabs Inc.
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240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
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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:	*10132905*
Expiration Date:	*07/2022*
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	10132900	**Pass**
N0418SVIAL	McrBC Substrate	10132899	**Pass**
M0272LVIAL	McrBC	10132903	**Pass**
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10106371	**Pass**
B7002SVIAL	NEBuffer™ 2	10111608	**Pass**

Assay Name/Specification	Lot # 10132905
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 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**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 37ºC results in <10% conversion to the nicked form 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 [^{3}H] E. coli DNA and a minimum of 30 units of McrBC incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**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
08 Mar 2022

Josh Hersey
Packaging Quality Control Inspector
08 Mar 2022