

## New England Biolabs Certificate of Analysis

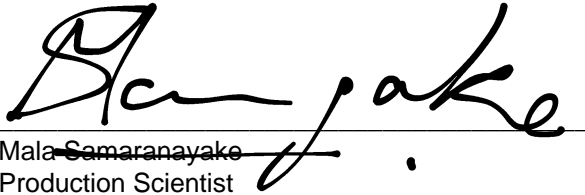
**Product Name:** McrBC  
**Catalog Number:** M0272L  
**Concentration:** 10,000 U/ml  
**Unit Definition:** One unit is defined as the amount of enzyme required to cleave 1 µg of a plasmid containing multiple McrBC sites in 1 hour at 37°C in a total reaction volume of 50 µl.  
**Packaging Lot Number:** 10150168  
**Expiration Date:** 10/2022  
**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	10146709	Pass
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10115120	Pass
B7002SVIAL	NEBuffer™ 2	10143291	Pass

Assay Name/Specification	Lot # 10150168
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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.	Pass
<b>Endonuclease Activity (Nicking)</b> 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
<b>Non-Specific DNase Activity (16 Hour)</b> 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

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

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10 Jun 2022



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10 Jun 2022