

New England Biolabs Certificate of Analysis

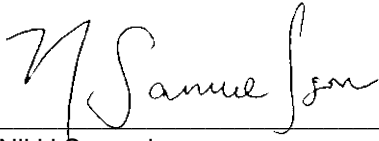
Product Name: Monarch® Buffer BX
Catalog Number: T2041L
Packaging Lot Number: 10238100
Expiration Date: 03/2027
Storage Temperature: 25°C
Specification Version: PS-T2041L v3.0

Monarch® Buffer BX Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T2041-2	Monarch® Buffer BX	10238026	Pass

Assay Name/Specification	Lot # 10238100
Endonuclease Activity (Nicking) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 µl of Monarch® Buffer BX incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 10 µl of Monarch® Buffer BX incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Monarch® Buffer BX is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

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

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10 Apr 2024



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16 Apr 2024