

320 Newburyport Turnpike Rowley, MA 01969-2002 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Monarch® Buffer BX
Catalog Number:	T2041L
Packaging Lot Number:	10237489
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	10237483	Pass	

Assay Name/Specification	Lot # 10237489
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.

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.





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June Gaumont Packaging Quality Control Inspector 16 Apr 2024

