

## New England Biolabs Certificate of Analysis

Product Name: Monarch® Buffer WX

Catalog Number: T2042L
Packaging Lot Number: 10244957
Expiration Date: 03/2027
Storage Temperature: 25°C

Specification Version: PS-T2042L v3.0

Monarch® Buffer WX Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
T2042-2	Monarch® Buffer WX	10237485	Pass

Assay Name/Specification	Lot # 10244957
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 µl of Monarch® Buffer WX incubated for 4 hours at 37°C results in	
<10% conversion to the nicked form as determined by agarose gel electrophoresis.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 10 µl of Monarch® Buffer WX incubated for 16 hours at 37°C results in a	
DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
RNase Activity (Extended Digestion)	Pass
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 WX 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.	

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.



T2042L / Lot: 10244957

Page 1 of 2



Nikki \$amuelson Production Scientist 10 Apr 2024 Davino

Julie Gaumont

Packaging Quality Control Inspector

29 May 2024

T2042L / Lot: 10244957

Page 2 of 2