

New England Biolabs Certificate of Analysis

Product Name: Monarch® Buffer WX

Catalog Number: T2042L
Packaging Lot Number: 10255239
Expiration Date: 08/2027
Storage Temperature: 25°C

Specification Version: PS-T2042L v3.0

| Monarch® Buffer WX Component List | | | |
|-----------------------------------|-----------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| T2042-2 | Monarch® Buffer WX | 10255223 | Pass |

| Assay Name/Specification | Lot # 10255239 |
|--|----------------|
| 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. | |
| 2 10 70 conversion to the maked form as determined by agarose ger electroprioresis. | |
| 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. | |
| 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 µI 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: 10255239

Page 1 of 2



Darcie Spaulding
Production Scientist
16 Sep 2024

Daimo

Julie Gaumont

Packaging Quality Control Inspector

24 Oct 2024