

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Total RNA Miniprep Kit*
Catalog Number: *T2010G*
Packaging Lot Number: *10210909*
Expiration Date: *11/2025*
Storage Temperature: *25°C*
Specification Version: *PS-T2010G v2.0*

| Monarch® Total RNA Miniprep Kit Component List | | | |
|---|---|-------------------|-----------------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| T2118-21 | Monarch® Spin Collection Tubes | 10234065 | Pass |
| T2017-21 | Monarch® gDNA Removal Columns | 10239814 | Pass |
| T2014-21 | Monarch® RNA Wash Buffer | 10210882 | Pass |
| T2013-21 | Monarch® RNA Priming Buffer | 10210880 | Pass |
| T2012-21 | Monarch® RNA Lysis Buffer | 10210877 | Pass |
| T2011-21 | Monarch® DNA/RNA Protection Reagent | 10210875 | Pass |
| T2007-21 | Monarch® RNA Purification Columns | 10239818 | Pass |
| T2006-21 | Monarch® Nuclease-free Water | 10210884 | Pass |
| T2005-21 | Monarch® DNase I Reaction Buffer | 10210790 | Pass |
| T2004-21 | Monarch® DNase I | 10210749 | Pass |
| T2003-21 | Monarch® Proteinase K Reaction Buffer | 10210747 | Pass |
| T2002-21 | Monarch® Proteinase K Resuspension Buffer | 10210744 | Pass |
| T2001-21 | Monarch® Proteinase K | 10210742 | Pass |

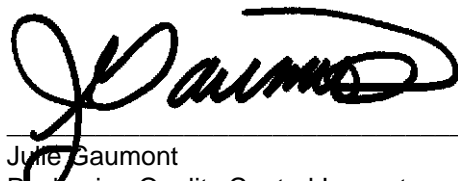
| Assay Name/Specification | Lot # 10210909 |
|---|----------------|
| <p>Functional Testing (DNA Recovery and Purity) Twenty-four Monarch® RNA Purification Columns are tested with 10 µg of Lambda/BstEII Marker resulting in ≥75% recovery in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.</p> | Pass |
| <p>Functional Testing (DNA Recovery) Eight Monarch® gDNA Removal Columns are tested with 10 µg of Lambda/BstEII Marker resulting in ≥65% recovery in ≥80% of the samples.</p> | Pass |
| <p>Functional Testing (DNase I, Monarch®) A 50 µl reaction in Monarch® DNase I Reaction Buffer with 1 µg of pBR322 and 5 mU Monarch® DNase I incubated for 10 minutes at 37°C results in digestion of the DNA fragments to ≤500 bp as determined by agarose gel electrophoresis.</p> | Pass |
| <p>Functional Testing (Proteinase K, Monarch®) A 20 µl reaction in Monarch® Proteinase K Reaction Buffer with 10 µg of MBP5 and 50 ng Monarch® Proteinase K incubated for 5 minutes at 37°C results in >75% digestion of the protein as determined by SDS-PAGE using Coomassie Blue detection.</p> | Pass |
| <p>Functional Testing (RNA Yield and Integrity Analysis) Total RNA is purified from 8 individual aliquots of HeLa cells (106 cells/aliquot). Yield of RNA is >5 µg in ≥75% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples as well as RIN values ≥8 in ≥80% of the samples.</p> | 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.



Darcie Spaulding
Production Scientist
09 May 2024



Julie Gaumont
Packaging Quality Control Inspector
10 May 2024