

Product Name: Monarch® Total RNA Miniprep Kit

Catalog Number: T2010S
Packaging Lot Number: 10214458
Expiration Date: 12/2024
Storage Temperature: 25°C

Specification Version: PS-T2010S v2.0

| Monarch® Total RNA Miniprep Kit Component List NEB Part Number | | | | |
|---|---|----------|------|--|
| T2018-1 | Monarch® Collection Tubes II | 10166717 | Pass | |
| 12010-1 | Monarche Collection Tubes II | 10166717 | Pass | |
| T2017-1 | Monarch® gDNA Removal Columns | 10166715 | Pass | |
| T2014-1 | Monarch® RNA Wash Buffer | 10210881 | Pass | |
| T2013-1 | Monarch® RNA Priming Buffer | 10210878 | Pass | |
| T2012-1 | Monarch® RNA Lysis Buffer | 10210876 | Pass | |
| T2011-1 | Monarch® DNA/RNA Protection Reagent | 10210874 | Pass | |
| T2007-1 | Monarch® RNA Purification Columns | 10166632 | Pass | |
| T2006-1 | Monarch® Nuclease-free Water | 10210799 | Pass | |
| T2005-1 | Monarch® DNase I Reaction Buffer | 10210787 | Pass | |
| T2004-1 | Monarch® DNase I | 10210748 | Pass | |
| T2003-1 | Monarch® Proteinase K Reaction Buffer | 10210746 | Pass | |
| T2002-1 | Monarch® Proteinase K Resuspension Buffer | 10210743 | Pass | |
| T2001-1 | Monarch® Proteinase K | 10210741 | Pass | |



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be INSPIRED drive DISCOVERY

stay GENUINE



| Assay Name/Specification | Lot # 10214458 |
|--|----------------|
| 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. | Pass |
| 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. | Pass |
| 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. | Pass |
| 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. | Pass |
| 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. | 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.

Michael Burzyk Production Scientist

11 Jan 2023

Julie Gaumont

Packaging Quality Control Inspector

10 Jan 2024



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