

New England Biolabs Certificate of Analysis

Product Name: *Monarch[®] Total RNA Miniprep Kit*
Catalog Number: *T2010S*
Packaging Lot Number: *10166731*
Expiration Date: *12/2024*
Storage Temperature: *25°C*
Specification Version: *PS-T2010S v2.0*

| Monarch[®] Total RNA Miniprep Kit Component List | | | |
|--|---|-------------------|-----------------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| T2018-1 | Monarch [®] Collection Tubes II | 10166717 | Pass |
| T2017-1 | Monarch [®] gDNA Removal Columns | 10166715 | Pass |
| T2014-1 | Monarch [®] RNA Wash Buffer | 10166713 | Pass |
| T2013-1 | Monarch [®] RNA Priming Buffer | 10166641 | Pass |
| T2012-1 | Monarch [®] RNA Lysis Buffer | 10166637 | Pass |
| T2011-1 | Monarch [®] DNA/RNA Protection Reagent | 10166634 | Pass |
| T2007-1 | Monarch [®] RNA Purification Columns | 10166632 | Pass |
| T2006-1 | Monarch [®] Nuclease-free Water | 10166628 | Pass |
| T2005-1 | Monarch [®] DNase I Reaction Buffer | 10166626 | Pass |
| T2004-1 | Monarch [®] DNase I | 10166624 | Pass |
| T2003-1 | Monarch [®] Proteinase K Reaction Buffer | 10166622 | Pass |
| T2002-1 | Monarch [®] Proteinase K Resuspension Buffer | 10166619 | Pass |
| T2001-1 | Monarch [®] Proteinase K | 10166617 | Pass |

| Assay Name/Specification | Lot # 10166731 |
|---|----------------|
| <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.



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11 Jan 2023



Nikki Samuelson
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20 Apr 2023