

New England Biolabs Certificate of Analysis

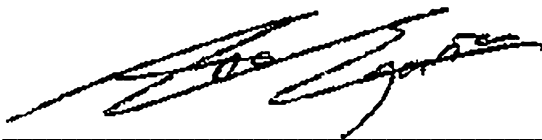
Product Name: *Monarch® Total RNA Miniprep Kit*
Catalog Number: *T2010S*
Packaging Lot Number: *10144556*
Expiration Date: *07/2024*
Storage Temperature: *25°C*
Specification Version: *PS-T2010S v2.0*

Monarch® Total RNA Miniprep Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T2018-1	Monarch® Collection Tubes II	10146188	Pass
T2017-1	Monarch® gDNA Removal Columns	10146186	Pass
T2014-1	Monarch® RNA Wash Buffer	10146179	Pass
T2013-1	Monarch® RNA Priming Buffer	10146177	Pass
T2012-1	Monarch® RNA Lysis Buffer	10146175	Pass
T2011-1	Monarch® DNA/RNA Protection Reagent	10146172	Pass
T2007-1	Monarch® RNA Purification Columns	10146170	Pass
T2006-1	Monarch® Nuclease-free Water	10146167	Pass
T2005-1	Monarch® DNase I Reaction Buffer	10146165	Pass
T2004-1	Monarch® DNase I	10146159	Pass
T2003-1	Monarch® Proteinase K Reaction Buffer	10146150	Pass
T2002-1	Monarch® Proteinase K Resuspension Buffer	10146148	Pass
T2001-1	Monarch® Proteinase K	10146127	Pass

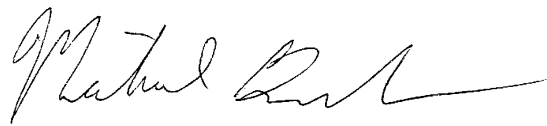
Assay Name/Specification	Lot # 10144556
<p>Functional Testing (RNA Yield and Integrity Analysis) Total RNA is purified from 8 individual aliquots of HeLa cells (106 cells/aliquot). Yield of RNA is >5 µg in ≥75% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples as well as RIN values ≥8 in ≥80% of the samples.</p>	Pass
<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 (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 (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 (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

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.



Ana Egana
Production Scientist
10 Aug 2022



Michael Burzyk
Packaging Quality Control Inspector
10 Aug 2022