

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Total RNA Miniprep Kit*
Catalog Number: *T2010G*
Packaging Lot Number: *10144565*
Expiration Date: *07/2024*
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
T2018-21	Monarch® Collection Tubes II	10146189	Pass
T2017-21	Monarch® gDNA Removal Columns	10146187	Pass
T2014-21	Monarch® RNA Wash Buffer	10146202	Pass
T2013-21	Monarch® RNA Priming Buffer	10146200	Pass
T2012-21	Monarch® RNA Lysis Buffer	10146197	Pass
T2011-21	Monarch® DNA/RNA Protection Reagent	10146195	Pass
T2007-21	Monarch® RNA Purification Columns	10146171	Pass
T2006-21	Monarch® Nuclease-free Water	10146193	Pass
T2005-21	Monarch® DNase I Reaction Buffer	10146166	Pass
T2004-21	Monarch® DNase I	10146160	Pass
T2003-21	Monarch® Proteinase K Reaction Buffer	10146151	Pass
T2002-21	Monarch® Proteinase K Resuspension Buffer	10146149	Pass
T2001-21	Monarch® Proteinase K	10146147	Pass

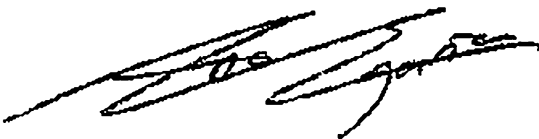
Assay Name/Specification	Lot # 10144565
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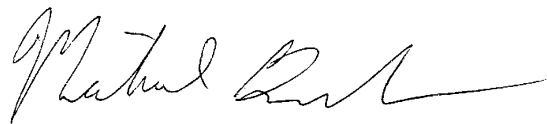
Assay Name/Specification	Lot # 10144565
<p>Functional Testing (Proteinase K, Monarch[®]) A 20 µl reaction in Monarch[®] Proteinase K Reaction Buffer with 10 µg of MBP5 and 50 ng Monarch[®] Proteinase K incubated for 5 minutes at 37°C results in >75% digestion of the protein as determined by SDS-PAGE 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
<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
<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

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
03 Nov 2022



Michael Burzyk
Packaging Quality Control Inspector
03 Nov 2022