

Product Name: Monarch® Total RNA Miniprep Kit

Catalog Number: T2010G
Packaging Lot Number: 10144555
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	10146185	Pass
T2013-21	Monarch® RNA Priming Buffer	10146178	Pass
T2012-21	Monarch® RNA Lysis Buffer	10146176	Pass
T2011-21	Monarch® DNA/RNA Protection Reagent	10146173	Pass
T2007-21	Monarch® RNA Purification Columns	10146171	Pass
T2006-21	Monarch® Nuclease-free Water	10146168	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 # 10144	555
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Assay Name/Specification	Lot # 10144555
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
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 (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 (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

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



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