

Product Name: Monarch® Total RNA Miniprep Kit

Catalog Number: T2010S
Packaging Lot Number: 10141109
Expiration Date: 01/2024
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	10140012	Pass	
T2017-1	Monarch® gDNA Removal Columns	10140858	Pass	
T2014-1	Monarch® RNA Wash Buffer	10140009	Pass	
T2013-1	Monarch® RNA Priming Buffer	10140006	Pass	
T2012-1	Monarch® RNA Lysis Buffer	10140004	Pass	
T2011-1	Monarch® DNA/RNA Protection Reagent	10140001	Pass	
T2007-1	Monarch® RNA Purification Columns	10139997	Pass	
T2006-1	Monarch® Nuclease-free Water	10139995	Pass	
T2005-1	Monarch® DNase I Reaction Buffer	10139993	Pass	
T2004-1	Monarch® DNase I	10140853	Pass	
T2003-1	Monarch® Proteinase K Reaction Buffer	10139989	Pass	
T2002-1	Monarch® Proteinase K Resuspension Buffer	10140849	Pass	
T2001-1	Monarch® Proteinase K	10140846	Pass	



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Assay Name/Specification	Lot # 10141109
Functional Testing (RNA Yield and Integrity Analysis) Total RNA is purified from 8 individual aliquots of HeLa cells (106 cells/aliquot).	Pass
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.	
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 (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 30 Mar 2022 Michael Burzyk

Packaging Quality Control Inspector

30 Mar 2022



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