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## New England Biolabs Certificate of Analysis

Product Name: Monarch Total RNA Miniprep Kit

Catalog Number: T2010G
Packaging Lot Number: 10053940
Expiration Date: 00/0000
Storage Temperature: 25°C

NEW ENGLAND

Specification Version: PS-T2010G v1.0

Monarch Total RNA Miniprep Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T2018-21	Monarch Collection Tubes II (10)	10054028	Pass
T2017-21	Monarch gDNA Removal Columns	10054008	Pass
T2014-21	Monarch RNA Wash Buffer	10054027	Pass
T2013-21	Monarch RNA Priming Buffer	10054026	Pass
T2012-21	Monarch RNA Lysis Buffer	10054025	Pass
T2011-21	Monarch DNA/RNA Protection Reagent	10054024	Pass
T2007-21	Monarch RNA Purification Columns	10054007	Pass
T2006-21	Monarch Nuclease-free Water	10054023	Pass
T2005-21	Monarch DNase I Reaction Buffer	10054021	Pass
T2004-21	Monarch DNase I	10054019	Pass
T2003-21	Monarch Proteinase K Reaction Buffer	10054017	Pass
T2002-21	Monarch Proteinase K Resuspension Buffer	10054015	Pass
T2001-21	Monarch Proteinase K	10054013	Pass

Assay Name/Specification	Lot # 10053940
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
Functional Testing (DNA Recovery) Eight Monarch® gDNA Removal Columns are tested with 10 μg of Lambda/BstEll Marker resulting in ≥65% recovery 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	Pass



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Assay Name/Specification	Lot # 10053940	
fragments to ≤500 bp as determined by agarose gel electrophoresis.		
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	

This product has been tested and shown to be in compliance with all specifications.

Ana Egana **Production Scientist** 

11 May 2020

Heidi Church

Packaging Quality Control Inspector

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11 May 2020



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