

## New England Biolabs Certificate of Analysis

Product Name: Monarch Total RNA Miniprep Kit

Catalog Number: T2010G
Lot Number: 10029778
Expiration Date: 00/0000
Storage Temperature: 25°C

Specification Version: PS-T2010G v1.0

Assay Name/Specification	Lot # 10029778
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 fragments to ≤500 bp as determined by agarose gel electrophoresis.	Pass
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.



T2010G / Lot: 10029778

Page 1 of 2



Ana Egana
Production Scientist
21 Mar 2019

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Heidi Church Packaging Quality Control Inspector 21 Mar 2019