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Tel 978-927-5054 Fax 978-921-1350 www.neb.com

New England Biolabs Certificate of Analysis

Product Name:	Monarch Total RNA Miniprep Kit
Catalog Number:	T2010G
Packaging Lot Number:	10044091
Expiration Date:	00/0000
Storage Temperature:	25°C
Specification Version:	PS-T2010G v1.0

Assay Name/Specification	Lot # 10044091
Functional Testing (DNA Recovery and Purity) Twenty-four Monarch [®] RNA Purification Columns are tested with 10 μ g of Lambda/BstEII Marker resulting in \geq 75% recovery in \geq 80% of the samples. OD 260/280 and 260/230 are \geq 1.75 in \geq 80% of the samples.	Pass
Functional Testing (DNA Recovery) Eight Monarch® gDNA Removal Columns are tested with 10 μ g of Lambda/BstEII 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 μ g 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.





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Ana Egana Production Scientist 19 Dec 2019

Darcie Spaulding Packaging Quality Control Inspector 19 Dec 2019

