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320 Newburyport Turnpike Rowley, MA 01969-2002 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Monarch® Total RNA Miniprep Kit
Catalog Number:	T2010S
Packaging Lot Number:	10175994
Expiration Date:	04/2025
Storage Temperature:	25°C
Specification Version:	PS-T2010S v2.0
Packaging Lot Number: Expiration Date: Storage Temperature:	10175994 04/2025 25°C

NEB Part Number	Component Description	Lot Number	Individual QC Result
T2018-1	Monarch® Collection Tubes II	10175808	Pass
T2017-1	Monarch® gDNA Removal Columns	10175806	Pass
T2014-1	Monarch® RNA Wash Buffer	10175721	Pass
T2013-1	Monarch® RNA Priming Buffer	10175716	Pass
T2012-1	Monarch® RNA Lysis Buffer	10175709	Pass
T2011-1	Monarch® DNA/RNA Protection Reagent	10175703	Pass
T2007-1	Monarch® RNA Purification Columns	10175803	Pass
T2006-1	Monarch® Nuclease-free Water	10175701	Pass
T2005-1	Monarch® DNase I Reaction Buffer	10175699	Pass
T2004-1	Monarch® DNase I	10175697	Pass
T2003-1	Monarch® Proteinase K Reaction Buffer	10175693	Pass
T2002-1	Monarch® Proteinase K Resuspension Buffer	10175680	Pass
T2001-1	Monarch® Proteinase K	10175672	Pass





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Assay Name/Specification	Lot # 10175994
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.

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.

anue

Nikki \$amuelson Production Scientist 21 Apr 2023

auma

June Gaumont Packaging Quality Control Inspector 29 Jun 2023

