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428 Newburyport Turnpike Rowley, MA 01969 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:	10053939
Expiration Date:	10/2021
Storage Temperature:	25°C
Specification Version:	PS-T2010S v1.0
Catalog Number: Packaging Lot Number: Expiration Date: Storage Temperature:	T2010S 10053939 10/2021 25°C

Monarch Total RNA Miniprep Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T2018-1	Monarch® Collection Tubes II (50)	10054029	Pass
T2017-1	Monarch gDNA Removal Columns	10054005	Pass
T2014-1	Monarch RNA Wash Buffer	10054006	Pass
T2013-1	Monarch RNA Priming Buffer	10054011	Pass
T2012-1	Monarch RNA Lysis Buffer	10054010	Pass
T2011-1	Monarch DNA/RNA Protection Reagent	10054009	Pass
T2007-1	Monarch RNA Purification Columns	10054004	Pass
T2006-1	Monarch Nuclease-free Water	10054022	Pass
T2005-1	Monarch DNase I Reaction Buffer	10054020	Pass
T2004-1	Monarch DNase I	10054018	Pass
T2003-1	Monarch Proteinase K Reaction Buffer	10054016	Pass
T2002-1	Monarch Proteinase K Resuspension Buffer	10054014	Pass
T2001-1	Monarch Proteinase K	10054012	Pass

Assay Name/Specification	Lot # 10053939
<b>Functional Testing (DNA Recovery and Purity)</b> Twenty-four Monarch <sup>®</sup> RNA Purification Columns are tested with 10 $\mu$ 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
<b>Functional Testing (DNA Recovery)</b> Eight Monarch® gDNA Removal Columns are tested with 10 µg of Lambda/BstEII Marker resulting in ≥65% recovery in ≥80% of the samples.	Pass
<b>Functional Testing (DNase I, Monarch®)</b> 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 # 10053939
fragments to $\leq$ 500 bp as determined by agarose gel electrophoresis.	
Functional Testing (Proteinase K, Monarch®)	Pass
A 20 $\mu$ l reaction in Monarch® Proteinase K Reaction Buffer with 10 $\mu$ g 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.	
Functional Testing (RNA Yield and Integrity Analysis)	Pass
Total RNA is purified from 8 individual aliquots of HeLa cells (106 cells/aliquot).	
Yield of RNA is >5 $\mu$ 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.	

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

Ana Egana Production Scientist 11 May 2020

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Heidi Church Packaging Quality Control Inspector 11 May 2020

