

240 County Road Ipswich, MA 01938-2723 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 #:	T2010S
Kit Components:	Monarch® gDNA Removal Columns (T2017) Monarch® RNA Purification Columns (T2007) Monarch® Collection Tubes II (T2018) Monarch® DNA/RNA Protection Reagent (T2011) Monarch® RNA Lysis Buffer (T2012) Monarch® Proteinase K (T2001) Monarch® Proteinase K Resuspension Buffer (T2002) Monarch® Proteinase K Reaction Buffer (T2003) Monarch® DNase I (T2004) Monarch® DNase I Reaction Buffer (T2005) Monarch® RNA Priming Buffer (T2013) Monarch® RNA Wash Buffer (T2014) Monarch® Nuclease-free Water (T2006)
<i>Lot #</i> :	0011709
Assay Date:	09/2017
Expiration Date:	03/2019
Storage Temp:	25°C
Specification Version:	PS-T2010S v1.0
Effective Date:	27 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0011709
<b>Functional Testing (DNA Recovery and Purity)</b> - Twenty-four Monarch® 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 $\mu$ g of Lambda/BstEII Marker resulting in ≥65% recovery in ≥80% of the samples.	Pass
<b>Functional Testing (DNase I, Monarch®)</b> - A 50 $\mu$ l reaction in Monarch® DNase I Reaction Buffer with 1 $\mu$ g of pBR322 and 5 mU Monarch® DNase I incubated for 10 minutes at 37°C results in digestion of the DNA fragments to $\leq$ 500 bp as determined by agarose gel electrophoresis.	Pass



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Assay Name/Specification (minimum release criteria)	Lot #0011709
<b>Functional Testing (Proteinase K, Monarch®)</b> - 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.	Pass
<b>Functional Testing (RNA Yield and Integrity Analysis)</b> - Total RNA is purified from 8 individual aliquots of HeLa cells (10 <sup>6</sup> cells/aliquot). Yield of RNA is >5 µg in $\geq$ 75% of the samples. OD 260/280 and 260/230 are $\geq$ 1.75 in $\geq$ 80% of the samples as well as RIN values $\geq$ 8 in $\geq$ 80% of the samples.	Pass

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Authorized by Derek Robinson 27 Apr 2018



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Inspected by Ana Egana 01 Sep 2017