

## New England Biolabs Certificate of Analysis

**Product Name:** Monarch® RNA Cleanup Kit (50 µg)  
**Catalog Number:** T2040L  
**Packaging Lot Number:** 10237493  
**Expiration Date:** 01/2026  
**Storage Temperature:** 25°C  
**Specification Version:** PS-T2040S/L v3.0

Monarch® RNA Cleanup Kit (50 µg) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T2047-1	RNA Cleanup 50 Columns (50 µg)	10207585	Pass
T2042-2	Monarch® Buffer WX	10237485	Pass
T2041-2	Monarch® Buffer BX	10237483	Pass
T2018-1	Monarch® Collection Tubes II	10176509	Pass
B1500-2	Nuclease-free Water	10237480	Pass

Assay Name/Specification	Lot # 10237493
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in Monarch® RNA Cleanup Kit (50 µg) and meet the designated specifications.</p>	<b>Pass</b>
<p><b>Functional Testing (Enzyme Inactivation and Removal)</b> Eight Monarch® RNA Cleanup Columns (T2047, 50 µg) are tested with 5 µg of RNA and 2 units of DNase I. A 50 µl reaction in DNase I Reaction Buffer with 1 µg of pBR322 and 50% of the column eluate incubated for 10 minutes at 37°C results in &gt;99.95% removal of DNase I activity in ≥75% of the samples.</p>	<b>Pass</b>
<p><b>Functional Testing (RNA Recovery and Purity)</b> Twenty-four Monarch® RNA Cleanup Columns (T2047, 50 µg) are tested with 5 µg of RNA resulting in ≥75% recovery in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.</p>	<b>Pass</b>

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](http://www.neb.com/trademarks) for additional information.





Darcie Spaulding  
Production Scientist  
23 Apr 2024



Julie Gaumont  
Packaging Quality Control Inspector  
23 Apr 2024