

## New England Biolabs Product Specification

*Product Name:* Monarch<sup>®</sup> RNA Cleanup Kit (50 µg)  
*Catalog #:* T2040S/L  
*Kit Components:* Monarch<sup>®</sup> RNA Cleanup Columns (50 µg) (T2047)  
Monarch<sup>®</sup> Collection Tubes II (T2018)  
Monarch<sup>®</sup> RNA Cleanup Binding Buffer (T2041)  
Monarch<sup>®</sup> RNA Cleanup Wash Buffer (T2042)  
Nuclease-free Water (B1500)

*Shelf Life:* 18 months  
*Storage Temp:* 25°C  
*Specification Version:* PS-T2040S/L v1.0  
*Effective Date:* 25 May 2018

### Assay Name/Specification (minimum release criteria)

**Functional Testing (Enzyme Inactivation and Removal)** - Eight Monarch<sup>®</sup> RNA Cleanup Columns (T2047, 50 µg) are tested with 5 µg of rRNA 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 >99.95% removal of DNase I activity in ≥75% of the samples.

**Functional Testing (RNA Recovery and Purity)** - Twenty-four Monarch<sup>®</sup> RNA Cleanup Columns (T2047, 50 µg) are tested with 5 µg of rRNA resulting in ≥75% recovery in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in Monarch<sup>®</sup> RNA Cleanup Kit (50 µg) and meet the designated specifications.



Date 25 May 2018

Derek Robinson  
Director of Quality Control

