

## New England Biolabs Product Specification

*Product Name:* Monarch® Spin RNA Cleanup Kit (500 µg)  
*Catalog #:* T2050S/L  
*Kit Components:* Monarch® Spin Columns S2B (T2057)  
Monarch® Spin Collection Tubes (T2118)  
Monarch® Buffer BX (T2041)  
Monarch® Buffer WX (T2042)  
Nuclease-free Water (B1500)  
*Shelf Life:* 24 months  
*Storage Temp:* 25°C  
*Specification Version:* PS-T2050S/L v4.0  
*Effective Date:* 19 Sep 2024

Assay Name/Specification (minimum release criteria)
<p><b>Functional Testing (Enzyme Inactivation and Removal)</b> - Eight Monarch® Spin Columns S2B are tested with 50 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> <p><b>Functional Testing (RNA Recovery and Purity)</b> - Twenty-four Monarch® Spin Columns S2B are tested with 50 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> <p><b>* Individual Product Component Note</b> - Standard Quality Control Tests are performed for each component included in Monarch® Spin RNA Cleanup Kit (500 µg) and meet the designated specifications.</p>

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Date 19 Sep 2024

Lauren Brown  
Quality Approver

