

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Spin gDNA Extraction Kit*
Catalog Number: *T3010G*
Packaging Lot Number: *10250985*
Expiration Date: *07/2026*
Storage Temperature: *25°C*
Specification Version: *PS-T3010G v4.0*

Monarch® Spin gDNA Extraction Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3018-21	Monarch® RNase A	10249323	Pass
T3017-21	Monarch® Spin Columns S2C	10250218	Pass
T3016-21	Monarch® gDNA Elution Buffer	10250964	Pass
T3015-21	Monarch® gDNA Wash Buffer	10250960	Pass
T3014-21	Monarch® gDNA Binding Buffer	10250957	Pass
T3013-21	Monarch® gDNA Blood Lysis Buffer	10250954	Pass
T3012-21	Monarch® gDNA Cell Lysis Buffer	10250951	Pass
T3011-21	Monarch® gDNA Tissue Lysis Buffer	10250948	Pass
T2118-22	Monarch® Spin Collection Tubes	10249344	Pass
P8200GVIAL	Proteinase K, Molecular Biology Grade	10250245	Pass

Assay Name/Specification	Lot # 10250985
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Monarch® Spin gDNA Extraction Kit and meet the designated specifications.</p>	Pass
<p>Functional Testing (Blood Cell Lysis Buffer, Monarch®) Genomic DNA is purified from 8 samples of whole pig blood, with $\geq 2 \mu\text{g}$ of gDNA being recovered in $\geq 80\%$ of the samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p>	Pass
<p>Functional Testing (Cell Lysis Buffer, Monarch®) Genomic DNA is purified from 8 individual aliquots cultured human cells (106 cells/aliquot), resulting in $\geq 3 \mu\text{g}$ of gDNA being recovered in $\geq 80\%$ of the samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p>	Pass
<p>Functional Testing (DNA Recovery and Purity)</p>	Pass

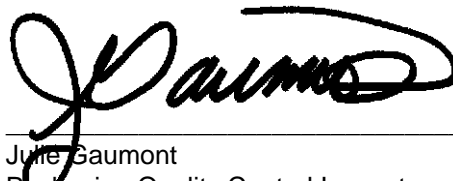
Assay Name/Specification	Lot # 10250985
<p>Twenty-four Monarch® Spin Columns S2C are tested with 10 µg of HindIII digested Lambda resulting in ≥75% recovery in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.</p>	
<p>Functional Testing (RNase A, Monarch®) A 10 µl reaction in NEBuffer 4 containing 40 ng of fluorescein labeled RNA transcript and RNase A is incubated at 37°C. After incubation for 5 minutes, complete disappearance of the RNA substrate occurs at ≤1.0 µg/ml of RNase A, as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<p>Functional Testing (Tissue Lysis Buffer, Monarch®) Genomic DNA is purified from 8 NEB10-Beta samples, resulting in ≥3 µg of gDNA being recovered in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.</p>	Pass

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 for additional information.



Darcie Spaulding
Production Scientist
08 Aug 2024



Julie Gaumont
Packaging Quality Control Inspector
30 Aug 2024