

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Genomic DNA Purification Kit*
 Catalog Number: *T3010L*
 Packaging Lot Number: *10231525*
 Expiration Date: *03/2026*
 Storage Temperature: *25°C*
 Specification Version: *PS-T3010S/L v2.0*

Monarch® Genomic DNA Purification Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3018-2	Monarch® RNase A	10230202	Pass
T3017-1	gDNA Purification 50 Columns	10228338	Pass
T3016-2	Monarch® gDNA Elution Buffer	10231312	Pass
T3015-2	Monarch® gDNA Wash Buffer	10231309	Pass
T3014-2	Monarch® gDNA Binding Buffer	10231304	Pass
T3013-2	Monarch® gDNA Blood Lysis Buffer	10231297	Pass
T3012-2	Monarch® gDNA Cell Lysis Buffer	10231295	Pass
T3011-2	Monarch® gDNA Tissue Lysis Buffer	10231293	Pass
T2018-1	Monarch® Collection Tubes II	10183685	Pass
P8200AAVIAL	Proteinase K, Molecular Biology Grade	10234387	Pass

Assay Name/Specification	Lot # 10231525
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Monarch® Genomic DNA Purification 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 using the Protocol for Extraction and Purification of Genomic DNA from Mammalian Whole Blood (non-nucleated), with ≥2 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
<p>Functional Testing (Cell Lysis Buffer, Monarch®) Genomic DNA is purified from 8 individual aliquots of HeLa cells (106 cells/aliquot) using the Protocol for Extraction and Purification of Genomic DNA from Cultured Cells, resulting in ≥3 µg of gDNA being recovered in ≥80% of the</p>	Pass

Assay Name/Specification	Lot # 10231525
<p>samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p>	
<p>Functional Testing (DNA Recovery and Purity) Twenty-four Monarch® gDNA Purification Columns are tested with 5 μg of HindIII digested Lambda resulting in $\geq 75\%$ recovery 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 (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 $\leq 1.0 \mu\text{g/ml}$ 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 treated using the Supplemental Protocol for Genomic DNA Purification from Gram-negative Bacteria, resulting in $\geq 5 \mu\text{g}$ 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

This product has been tested and shown to be in compliance with all specifications.

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Darcie Spaulding
Production Scientist
15 Apr 2024



June Gaumont
Packaging Quality Control Inspector
15 Apr 2024