

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Genomic DNA Purification Kit*
Catalog Number: *T3010L*
Packaging Lot Number: *10163971*
Expiration Date: *12/2024*
Storage Temperature: *25°C*
Specification Version: *PS-T3010S/L v2.0*

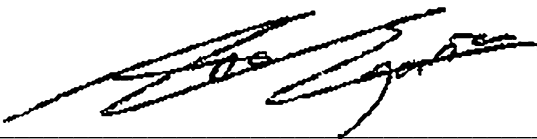
Monarch® Genomic DNA Purification Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3018-2	Monarch® RNase A	10162417	Pass
T3017-1	gDNA Purification 50 Columns	10170040	Pass
T3016-2	Monarch® gDNA Elution Buffer	10165774	Pass
T3015-2	Monarch® gDNA Wash Buffer	10165771	Pass
T3014-2	Monarch® gDNA Binding Buffer	10165768	Pass
T3013-2	Monarch® gDNA Blood Lysis Buffer	10182363	Pass
T3012-2	Monarch® gDNA Cell Lysis Buffer	10165762	Pass
T3011-2	Monarch® gDNA Tissue Lysis Buffer	10165752	Pass
T2018-1	Monarch® Collection Tubes II	10165964	Pass
P8107AAVIAL	Proteinase K, Molecular Biology Grade	10137996	Pass

Assay Name/Specification	Lot # 10163971
<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 $\geq 2 \mu\text{g}$ 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 of HeLa cells (106 cells/aliquot) using the Protocol for Extraction and Purification of Genomic DNA from Cultured Cells, resulting in $\geq 3 \mu\text{g}$ of gDNA being recovered in $\geq 80\%$ of the</p>	Pass

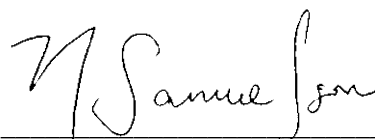
Assay Name/Specification	Lot # 10163971
<p>samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p>	
<p>Functional Testing (DNA Recovery and Purity) Twenty-four Monarch® gDNA Purification Columns are tested with 5 μg of HindIII digested Lambda resulting in $\geq 75\%$ recovery in $\geq 80\%$ 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.

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.



Ana Egana
Production Scientist
29 Mar 2023



Nikki Samuelson
Packaging Quality Control Inspector
29 Mar 2023