

New England Biolabs Certificate of Analysis

Product Name: Monarch® Genomic DNA Purification Kit
Catalog Number: T3010G
Packaging Lot Number: 10144715
Expiration Date: 07/2024
Storage Temperature: 25°C
Specification Version: PS-T3010G v2.0

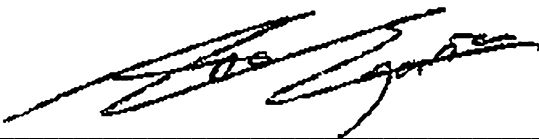
Monarch® Genomic DNA Purification Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3018-21	Monarch® RNase A	10137961	Pass
T3017-21	gDNA Purification 10 Columns, IIC	10137043	Pass
T3016-21	Monarch® gDNA Elution Buffer	10153317	Pass
T3015-21	Monarch® gDNA Wash Buffer	10153314	Pass
T3014-21	Monarch® gDNA Binding Buffer	10153308	Pass
T3013-21	Monarch® gDNA Blood Lysis Buffer	10153303	Pass
T3012-21	Monarch® gDNA Cell Lysis Buffer	10153268	Pass
T3011-21	Monarch® gDNA Tissue Lysis Buffer	10153260	Pass
T2018-22	Monarch® Collection Tubes II (20)	10041731	Pass
P8107GVIAL	Proteinase K, Molecular Biology Grade	10137997	Pass

Assay Name/Specification	Lot # 10144715
Functional Testing (DNA Recovery and Purity) Twenty-four Monarch® gDNA Purification Columns are tested with 5 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.	Pass
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.	Pass
* 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.	Pass

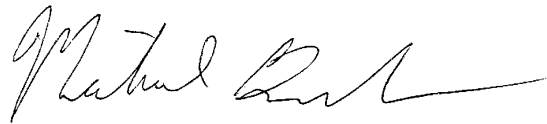
Assay Name/Specification	Lot # 10144715
<p>Functional Testing (Tissue Lysis Buffer, Monarch®) Genomic DNA is purified from 8 NEB10-Beta samples treated using the Supplemental Protocol for Genomic DNA Purification from Gram-negative Bacteria, resulting in ≥ 5 μg of gDNA being recovered in $\geq 80\%$ of the samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p>	Pass
<p>Functional Testing (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 for Mammalian Whole Blood (non-nucleated), with ≥ 2 μg 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 ≥ 3 μg 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
13 Oct 2022



Michael Burzyk
Packaging Quality Control Inspector
13 Oct 2022