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New England Biolabs Certificate of Analysis

Product Name: Monarch® Genomic DNA Purification Kit

Catalog Number: T3010G
Packaging Lot Number: 10163969
Expiration Date: 12/2024
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	10162419	Pass
T3017-21	gDNA Purification 10 Columns, IIC	10170041	Pass
T3016-21	Monarch® gDNA Elution Buffer	10165775	Pass
T3015-21	Monarch® gDNA Wash Buffer	10165772	Pass
T3014-21	Monarch® gDNA Binding Buffer	10165769	Pass
T3013-21	Monarch® gDNA Blood Lysis Buffer	10179860	Pass
T3012-21	Monarch® gDNA Cell Lysis Buffer	10165763	Pass
T3011-21	Monarch® gDNA Tissue Lysis Buffer	10165753	Pass
T2018-22	Monarch® Collection Tubes II (20)	10041731	Pass
P8107GVIAL	Proteinase K, Molecular Biology Grade	10152682	Pass

Assay Name/Specification	Lot # 10163969
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in Monarch® Genomic DNA Purification Kit and meet the designated specifications.	
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 ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.	Pass
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 samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.	Pass



T3010G / Lot: 10163969

Page 1 of 2

Assay Name/Specification	Lot # 10163969
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
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 ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75	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 31 Mar 2023

in ≥80% of the samples.

Nikki \$amuelson

Packaging Quality Control Inspector

31 Mar 2023



T3010G / Lot: 10163969