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New England Biolabs Certificate of Analysis

Product Name: Monarch Genomic DNA Purification Kit

Catalog Number: T3010L
Packaging Lot Number: 10104305
Expiration Date: 11/2022
Storage Temperature: 25°C

Specification Version: PS-T3010S/L v1.0

Monarch Genomic DNA Purification Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3018-2	Monarch® RNase A	10094335	Pass
T3017-1	gDNA Purification 50 Columns, IIC	10086482	Pass
T3016-2	Monarch gDNA Elution Buffer	10104388	Pass
T3015-2	Monarch gDNA Wash Buffer	10104333	Pass
T3014-2	Monarch gDNA Binding Buffer	10104327	Pass
T3013-2	Monarch gDNA Blood Lysis Buffer	10111097	Pass
T3012-2	Monarch gDNA Cell Lysis Buffer	10111094	Pass
T3011-2	Monarch gDNA Tissue Lysis Buffer	10104317	Pass
T2018-1	Monarch® Collection Tubes II (50)	10086488	Pass
P8107AAVIAL	Proteinase K, Molecular Biology Grade	10094342	Pass

Assay Name/Specification	Lot # 10104305
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	Pass
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.	
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.	Pass
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	Pass



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Assay Name/Specification	Lot # 10104305
260/230 are ≥1.75 in ≥80% of the samples.	
* 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
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 in ≥80% of the samples.	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 15 Jun 2021 Michael Burzyk

Packaging Quality Control Inspector

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15 Jun 2021

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