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New England Biolabs Certificate of Analysis

Product Name: Monarch® Genomic DNA Purification Kit

Catalog Number: T3010L
Packaging Lot Number: 10144592
Expiration Date: 04/2024
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	10137960	Pass
T3017-1	gDNA Purification 50 Columns	10108852	Pass
T3016-2	Monarch® gDNA Elution Buffer	10147134	Pass
T3015-2	Monarch® gDNA Wash Buffer	10147132	Pass
T3014-2	Monarch® gDNA Binding Buffer	10147130	Pass
T3013-2	Monarch® gDNA Blood Lysis Buffer	10147127	Pass
T3012-2	Monarch® gDNA Cell Lysis Buffer	10147125	Pass
T3011-2	Monarch® gDNA Tissue Lysis Buffer	10147119	Pass
T2018-1	Monarch® Collection Tubes II	10108836	Pass
P8107AAVIAL	Proteinase K, Molecular Biology Grade	10137996	Pass

Assay Name/Specification	Lot # 10144592
* 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 (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



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Assay Name/Specification	Lot # 10144592
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 ug of gDNA being recovered in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 n ≥80% of the samples.	Pass
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 (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	Pass

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

samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.

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 04 May 2022 Michael Burzyk

Packaging Quality Control Inspector

04 May 2022



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