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Tel 978-927-5054 Fax 978-921-1350 www.neb.com

New England Biolabs Certificate of Analysis

Product Name:	Monarch Genomic DNA Purification Kit
Catalog Number:	T3010S
Lot Number:	10028539
Expiration Date:	06/2020
Storage Temperature:	25°C
Specification Version:	PS-T3010S/L v1.0

Assay Name/Specification	Lot # 10028539
Functional Testing (Blood Cell Lysis Buffer, Monarch®) Eight samples of whole pig blood are treated using the Cell Lysis protocol for Mammalian Whole Blood (non-nucleated), with $\geq 2 \ \mu g$ 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.	Pass
Functional Testing (Cell Lysis Buffer, Monarch®) Genomic DNA is purified from 8 individual aliquots of HeLa cells (106 cells/aliquot) using the Cell Lysis protocol for cultured cells, resulting in \geq 3 µg of gDNA being recovered in \geq 80% of the samples. OD 260/280 and 260/230 are \geq 1.75 in \geq 80% of the samples.	Pass
Functional Testing (DNA Recovery and Purity) Twenty-four Monarch® gDNA Purification Columns are tested with 5 μ g 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 \geq 5 µg of gDNA being recovered in \geq 80% of the samples. OD 260/280 and 260/230 are \geq 1.75 in \geq 80% of the samples.	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

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





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Ana Egana Production Scientist 25 Apr 2019

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