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

## New England Biolabs Certificate of Analysis

Monarch Genomic DNA Purification Kit
T3010S
10041701
02/2021
25°C
PS-T3010S/L v1.0

Assay Name/Specification	Lot # 10041701
<b>Functional Testing (RNase A, Monarch®)</b> A 10 $\mu$ I 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 $\mu$ g/ml of RNase A, as determined by gel electrophoresis using fluorescent detection.	Pass
<b>Functional Testing (Tissue Lysis Buffer, Monarch®)</b> 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
<b>Functional Testing (DNA Recovery and Purity)</b> Twenty-four Monarch <sup>®</sup> gDNA Purification Columns are tested with 5 $\mu$ 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
* 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
<b>Functional Testing (Cell Lysis Buffer, Monarch®)</b> 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 $\geq$ 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
<b>Functional Testing (Blood Cell Lysis Buffer, Monarch®)</b> 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 $\geq 2 \ \mu g$ 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





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

Ana Egana Production Scientist 25 Nov 2019 Darcie Spaulding Packaging Quality Control Inspector 25 Nov 2019

