

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Genomic DNA Purification Kit*
 Catalog Number: *T3010L*
 Packaging Lot Number: *10144729*
 Expiration Date: *07/2024*
 Storage Temperature: *25°C*
 Specification Version: *PS-T3010S/L v2.0*

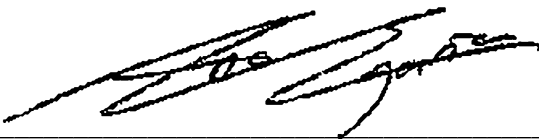
| Monarch® Genomic DNA Purification Kit Component List | | | |
|--|---------------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| T3018-2 | Monarch® RNase A | 10137960 | Pass |
| T3017-1 | gDNA Purification 50 Columns | 10137047 | Pass |
| T3016-2 | Monarch® gDNA Elution Buffer | 10153316 | Pass |
| T3015-2 | Monarch® gDNA Wash Buffer | 10153312 | Pass |
| T3014-2 | Monarch® gDNA Binding Buffer | 10153307 | Pass |
| T3013-2 | Monarch® gDNA Blood Lysis Buffer | 10153302 | Pass |
| T3012-2 | Monarch® gDNA Cell Lysis Buffer | 10153267 | Pass |
| T3011-2 | Monarch® gDNA Tissue Lysis Buffer | 10153257 | Pass |
| T2018-1 | Monarch® Collection Tubes II | 10137027 | Pass |
| P8107AAVIAL | Proteinase K, Molecular Biology Grade | 10118349 | Pass |

| Assay Name/Specification | Lot # 10144729 |
|--|----------------|
| <p>* 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.</p> | Pass |
| <p>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 $\geq 2 \mu\text{g}$ 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.</p> | Pass |
| <p>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 $\geq 3 \mu\text{g}$ of gDNA being recovered in $\geq 80\%$ of the</p> | Pass |

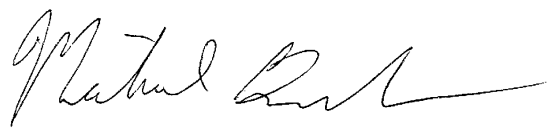
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|--|----------------|
| <p>samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p> | |
| <p>Functional Testing (DNA Recovery and Purity) Twenty-four Monarch[®] gDNA Purification Columns are tested with 5 μg of HindIII digested Lambda resulting in $\geq 75\%$ recovery in $\geq 80\%$ of the samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</p> | Pass |
| <p>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 $\leq 1.0 \mu\text{g/ml}$ of RNase A, as determined by gel electrophoresis using fluorescent detection.</p> | Pass |
| <p>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 $\geq 5 \mu\text{g}$ 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.</p> | 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
04 Jan 2023



Michael Burzyk
Packaging Quality Control Inspector
04 Jan 2023