

New England Biolabs Certificate of Analysis

Product Name: *Monarch® Genomic DNA Purification Kit*
 Catalog Number: *T3010G*
 Packaging Lot Number: *10104300*
 Expiration Date: *11/2022*
 Storage Temperature: *25°C*
 Specification Version: *PS-T3010G v1.0*

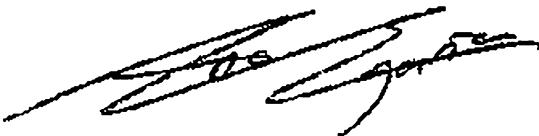
Monarch® Genomic DNA Purification Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3018-21	Monarch® RNase A	10094339	Pass
T3017-21	gDNA Purification 10 Columns, IIC	10088571	Pass
T3016-21	Monarch gDNA Elution Buffer	10104370	Pass
T3015-21	Monarch® gDNA Wash Buffer	10104338	Pass
T3014-21	Monarch gDNA Binding Buffer	10104386	Pass
T3013-21	Monarch gDNA Blood Lysis Buffer	10111098	Pass
T3012-21	Monarch gDNA Cell Lysis Buffer	10111095	Pass
T3011-21	Monarch gDNA Tissue Lysis Buffer	10111092	Pass
T2018-22	Monarch® Collection Tubes II (20)	10041731	Pass
P8107GVIAL	Proteinase K, Molecular Biology Grade	10094343	Pass

Assay Name/Specification	Lot # 10104300
<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 samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.</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
<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,</p>	Pass

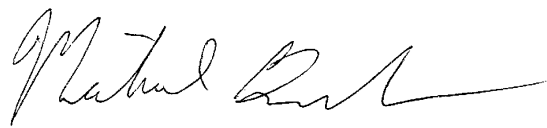
Assay Name/Specification	Lot # 10104300
<p>complete disappearance of the RNA substrate occurs at $\leq 1.0 \mu\text{g/ml}$ of RNase A, as determined by gel electrophoresis using fluorescent detection.</p> <p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Monarch[®] Genomic DNA Purification Kit and meet the designated specifications.</p> <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> <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 for 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>	<p style="text-align: center;">Pass</p> <p style="text-align: center;">Pass</p> <p style="text-align: center;">Pass</p>

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.



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21 Jul 2021



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21 Jul 2021