

New England Biolabs Certificate of Analysis

Product Name: *Monarch[®] Genomic DNA Purification Kit*
Catalog Number: *T3010G*
Packaging Lot Number: *10059922*
Expiration Date: *02/2022*
Storage Temperature: *25°C*
Specification Version: *PS-T3010G v1.0*

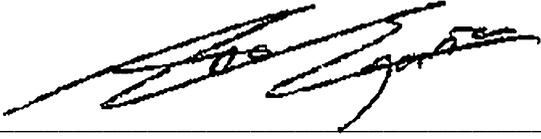
Monarch [®] Genomic DNA Purification Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3017-21	gDNA Purification 10 Columns, IIC	10060040	Pass
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T2018-22	Monarch [®] Collection Tubes II (20)	10041731	Pass
T2018-22	Monarch [®] Collection Tubes II (20)	10041731	Pass
P8107GVIAL	Proteinase K, Molecular Biology Grade	10066786	Pass
P8107GVIAL	Proteinase K, Molecular Biology Grade	10066786	Pass
B1221	gDNA Elution Buffer	10061917	Pass
B1221	gDNA Elution Buffer	10061917	Pass
B1220	gDNA Wash Buffer	10061916	Pass
B1220	gDNA Wash Buffer	10061916	Pass
B1219	gDNA Binding Buffer	10061915	Pass
B1219	gDNA Binding Buffer	10061915	Pass
B1218	Tissue Lysis Buffer	10061914	Pass
B1218	Tissue Lysis Buffer	10061914	Pass
B1217-2X	Cell Lysis Buffer	10061913	Pass
B1217-2X	Cell Lysis Buffer	10061913	Pass
B1216-2X	2X Blood Lysis Buffer	10061912	Pass
B1216-2X	2X Blood Lysis Buffer	10061912	Pass

Assay Name/Specification	Lot # 10059922
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.	Pass

Assay Name/Specification	Lot # 10059922
<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 ≥ 5 μg 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, complete disappearance of the RNA substrate occurs at ≤ 1.0 $\mu\text{g}/\text{ml}$ of RNase A, as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<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 (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 (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 ≥ 2 μg 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
10 Jul 2020



Darcie Spaulding
Packaging Quality Control Inspector
10 Jul 2020