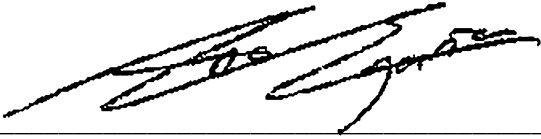


## New England Biolabs Certificate of Analysis

**Product Name:** Monarch Genomic DNA Purification Kit  
**Catalog Number:** T3010L  
**Packaging Lot Number:** 10041702  
**Expiration Date:** 02/2021  
**Storage Temperature:** 25°C  
**Specification Version:** PS-T3010S/L v1.0

Assay Name/Specification	Lot # 10041702
<p><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 <math>\geq 5</math> <math>\mu\text{g}</math> of gDNA being recovered in <math>\geq 80\%</math> of the samples. OD 260/280 and 260/230 are <math>\geq 1.75</math> in <math>\geq 80\%</math> of the samples.</p>	<b>Pass</b>
<p><b>Functional Testing (RNase A, Monarch®)</b>            A 10 <math>\mu\text{l}</math> 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 <math>\leq 1.0</math> <math>\mu\text{g}/\text{ml}</math> of RNase A, as determined by gel electrophoresis using fluorescent detection.</p>	<b>Pass</b>
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in Monarch® Genomic DNA Purification Kit and meet the designated specifications.</p>	<b>Pass</b>
<p><b>Functional Testing (DNA Recovery and Purity)</b>            Twenty-four Monarch® gDNA Purification Columns are tested with 5 <math>\mu\text{g}</math> of HindIII digested Lambda resulting in <math>\geq 75\%</math> recovery in <math>\geq 80\%</math> of the samples. OD 260/280 and 260/230 are <math>\geq 1.75</math> in <math>\geq 80\%</math> of the samples.</p>	<b>Pass</b>
<p><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 <math>\geq 3</math> <math>\mu\text{g}</math> of gDNA being recovered in <math>\geq 80\%</math> of the samples. OD 260/280 and 260/230 are <math>\geq 1.75</math> in <math>\geq 80\%</math> of the samples.</p>	<b>Pass</b>
<p><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 <math>\geq 2</math> <math>\mu\text{g}</math> of gDNA being recovered in <math>\geq 80\%</math> of the samples. OD 260/280 and 260/230 are <math>\geq 1.75</math> in <math>\geq 80\%</math> of the samples.</p>	<b>Pass</b>

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



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Ana Egana  
Production Scientist  
25 Nov 2019

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Darcie Spaulding  
Packaging Quality Control Inspector  
25 Nov 2019