

## New England Biolabs Certificate of Analysis

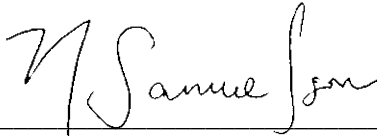
**Product Name:** *Monarch® HMW DNA Extraction Kit for Cells & Blood*  
**Catalog Number:** *T3050L*  
**Packaging Lot Number:** *10231537*  
**Expiration Date:** *03/2026*  
**Storage Temperature:** *25°C*  
**Specification Version:** *PS-T3050S/L v3.0*

Monarch® HMW DNA Extraction Kit for Cells & Blood Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T3056-1	Monarch® gDNA Elution Buffer II	10231328	Pass
T3055-1	Monarch® Precipitation Enhancer	10231327	Pass
T3053-1	Monarch® gDNA Nuclei Lysis Buffer	10231326	Pass
T3052-1	Monarch® gDNA Nuclei Prep Buffer	10231325	Pass
T3051-1	Monarch® RBC Lysis Buffer	10231321	Pass
T3018-1	Monarch® RNase A	10230197	Pass
T3015-1	Monarch® gDNA Wash Buffer	10231308	Pass
T3005-1	Monarch® DNA Capture Beads (100)	10231289	Pass
T3004-1	Monarch® Bead Retainers	10231451	Pass
T3003-1	Monarch® 2 ml Tubes (50)	10152771	Pass
T2118-1	Monarch® Spin Collection Tubes	10231418	Pass
P8200AAVIAL	Proteinase K, Molecular Biology Grade	10234387	Pass

Assay Name/Specification	Lot # 10231537
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in Monarch® HMW DNA Extraction Kit for Cells &amp; Blood and meet the designated specifications.</p>	<b>Pass</b>
<p><b>Functional Testing (Genomic DNA Yield and Integrity Analysis) (Blood)</b> Genomic DNA is purified from 8 samples of whole pig blood using the High Molecular Weight DNA Extraction from Blood (Frozen Mammalian Blood) protocol. Each set of reagents is functionally tested to ensure successful isolation of gDNA from frozen pig blood samples. Yield of genomic DNA is compared across various metrics including a minimum gDNA yield of 6 µg per extraction and a recovery equivalence of ≥85% as compared to the control lot. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples, and DIN values are ≥9 in ≥80% of the samples. In ≥ 80% of samples, ≥ 75% of the DNA is 50 kb in size or greater.</p>	<b>Pass</b>

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](http://www.neb.com/trademarks) for additional information.



---

Nikki Samuelson  
Production Scientist  
15 Mar 2024



---

Julie Gaumont  
Packaging Quality Control Inspector  
11 Jun 2024