

New England Biolabs Certificate of Analysis

Product Name: *Monarch® HMW DNA Extraction Kit for Cells & Blood*
Catalog Number: *T3050L*
Packaging Lot Number: *10251129*
Expiration Date: *07/2026*
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	10249646	Pass
T3055-1	Monarch® Precipitation Enhancer	10249643	Pass
T3053-1	Monarch® gDNA Nuclei Lysis Buffer	10249640	Pass
T3052-1	Monarch® gDNA Nuclei Prep Buffer	10249638	Pass
T3051-1	Monarch® RBC Lysis Buffer	10249633	Pass
T3018-1	Monarch® RNase A	10249318	Pass
T3015-1	Monarch® gDNA Wash Buffer	10250958	Pass
T3005-1	Monarch® DNA Capture Beads (100)	10152785	Pass
T3004-1	Monarch® Bead Retainers	10248336	Pass
T3003-1	Monarch® 2 ml Tubes (50)	10249472	Pass
T2118-1	Monarch® Spin Collection Tubes	10234057	Pass
P8200AAVIAL	Proteinase K, Molecular Biology Grade	10250244	Pass

Assay Name/Specification	Lot # 10251129
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Monarch® HMW DNA Extraction Kit for Cells & Blood and meet the designated specifications.</p>	Pass
<p>Functional Testing (Genomic DNA Yield and Integrity Analysis) (Blood) 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>	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.



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Production Scientist
13 Sep 2024



Julie Gaumont
Packaging Quality Control Inspector
24 Oct 2024