

New England Biolabs Certificate of Analysis

Product Name: *Monarch® HMW DNA Extraction Kit for Cells & Blood*
Catalog Number: *T3050G*
Packaging Lot Number: *10251128*
Expiration Date: *07/2026*
Storage Temperature: *25°C*
Specification Version: *PS-T3050G v3.0*

| Monarch® HMW DNA Extraction Kit for Cells & Blood Component List | | | |
|--|---------------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| T3056-21 | Monarch® gDNA Elution Buffer II | 10249650 | Pass |
| T3055-21 | Monarch® Precipitation Enhancer | 10249644 | Pass |
| T3053-21 | Monarch® gDNA Nuclei Lysis Buffer | 10249642 | Pass |
| T3052-21 | Monarch® gDNA Nuclei Prep Buffer | 10249639 | Pass |
| T3051-21 | Monarch® RBC Lysis Buffer | 10249635 | Pass |
| T3018-21 | Monarch® RNase A | 10249323 | Pass |
| T3015-21 | Monarch® gDNA Wash Buffer | 10250960 | Pass |
| T3005-21 | Monarch® DNA Capture Beads (10) | 10119963 | Pass |
| T3004-21 | Monarch® Bead Retainers | 10249474 | Pass |
| T3003-21 | Monarch® 2 ml Tubes (10) | 10249473 | Pass |
| T2118-23 | Monarch® Spin Collection Tubes | 10249347 | Pass |
| P8200GVIAL | Proteinase K, Molecular Biology Grade | 10250245 | Pass |

| Assay Name/Specification | Lot # 10251128 |
|---|----------------|
| <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
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19 Sep 2024