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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
*** 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.	**Pass**
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.	**Pass**

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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.

Darcie Spaulding
Production Scientist
01 Apr 2024

Julie Gaumont
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01 Apr 2024