

320 Newburyport Turnpike Rowley, MA 01969-2002 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	Monarch® HMW DNA Extraction Kit for Cells & Blood
Catalog Number:	T3050S
Packaging Lot Number:	10231550
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
T3056-21	Monarch® gDNA Elution Buffer II	10231329	Pass
T3055-21	Monarch® Precipitation Enhancer	10231349	Pass
T3053-21	Monarch® gDNA Nuclei Lysis Buffer	10231348	Pass
T3052-21	Monarch® gDNA Nuclei Prep Buffer	10231347	Pass
T3051-21	Monarch® RBC Lysis Buffer	10231323	Pass
T3018-21	Monarch® RNase A	10230203	Pass
T3015-21	Monarch® gDNA Wash Buffer	10231310	Pass
T3005-21	Monarch® DNA Capture Beads (10)	10231290	Pass
T3004-21	Monarch® Bead Retainers	10231522	Pass
T3003-21	Monarch® 2 ml Tubes (10)	10119955	Pass
T2118-23	Monarch® Spin Collection Tubes	10231419	Pass
P8200GVIAL	Proteinase K, Molecular Biology Grade	10234388	Pass

Assay Name/Specification	Lot # 10231550
* 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
<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.	Pass





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

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barcel Speulding

Darcie Spaulding Production Scientist 29 Mar 2024

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June Gaumont Packaging Quality Control Inspector 29 Mar 2024

