

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>Monarch<sup>®</sup> HMW DNA Extraction Kit for Tissue</i>
<i>Catalog #:</i>	<i>T3060S/L</i>
<i>Kit Components:</i>	<i>Monarch<sup>®</sup> DNA Capture Beads (T3005) — Store at 25°C</i> <i>Monarch<sup>®</sup> Bead Retainers (T3004) — Store at 25°C</i> <i>Monarch<sup>®</sup> 2 ml Tubes (T3003) — Store at 25°C</i> <i>Monarch<sup>®</sup> Pestles (T3002) — Store at 25°C</i> <i>Monarch<sup>®</sup> Pestle Tubes (T3001) — Store at 25°C</i> <i>Monarch<sup>®</sup> Spin Collection Tubes (T2118) — Store at 25°C</i> <i>Monarch<sup>®</sup> HMW gDNA Tissue Lysis Buffer (T3061) — Store at 25°C</i> <i>Monarch<sup>®</sup> Protein Separation Solution (T3062) — Store at 25°C</i> <i>Monarch<sup>®</sup> gDNA Wash Buffer (T3015) — Store at 25°C</i> <i>Monarch<sup>®</sup> gDNA Elution Buffer II (T3056) — Store at 25°C</i> <i>Monarch<sup>®</sup> RNase A (T3018) — Store at -20°C</i> <i>Proteinase K, Molecular Biology Grade (P8200) — Store at -20°C</i>
<i>Shelf Life:</i>	<i>36 months</i>
<i>Storage Temp:</i>	<i>Multi-temperature</i>
<i>Specification Version:</i>	<i>PS-T3060S/L v4.0</i>
<i>Effective Date:</i>	<i>22 Apr 2025</i>

### Assay Name/Specification (minimum release criteria)

**Functional Testing (Genomic DNA Yield and Integrity Analysis) (Tissue)** - Genomic DNA is purified from 8 samples of NEB 10-beta Competent *E. coli* using the High Molecular Weight DNA Extraction from Bacteria protocol. Each set of reagents is functionally tested to ensure successful isolation of gDNA from 1 x 10<sup>9</sup> cells. Yield of genomic DNA is ≥6 µg in ≥80% of the samples. 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.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in Monarch<sup>®</sup> HMW DNA Extraction Kit for Tissue and meet the designated specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark.  
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*Nancy Considine*

Date 22 Apr 2025

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Nancy Considine  
Quality Approver

