

## New England Biolabs Product Specification

**Product Name:** *Monarch<sup>®</sup> HMW DNA Extraction Kit for Tissue*

**Catalog #:** *T3060S/L*

**Kit Components:** *Monarch<sup>®</sup> DNA Capture Beads (T3005) — Store at 25°C*  
*Monarch<sup>®</sup> Bead Retainers (T3004) — Store at 25°C*  
*Monarch<sup>®</sup> 2 ml Tubes (T3003) — Store at 25°C*  
*Monarch<sup>®</sup> Pestles (T3002) — Store at 25°C*  
*Monarch<sup>®</sup> Pestle Tubes (T3001) — Store at 25°C*  
*Monarch<sup>®</sup> Collection Tubes II (T2018) — Store at 25°C*  
*Monarch<sup>®</sup> HMW gDNA Tissue Lysis Buffer (T3061) — Store at 25°C*  
*Monarch<sup>®</sup> Protein Separation Solution (T3062) — Store at 25°C*  
*Monarch<sup>®</sup> gDNA Wash Buffer (T3015) — Store at 25°C*  
*Monarch<sup>®</sup> gDNA Elution Buffer II (T3056) — Store at 25°C*  
*Monarch<sup>®</sup> RNase A (T3018) — Store at -20°C*  
*Proteinase K, Molecular Biology Grade (P8107) — Store at -20°C*

**Shelf Life:** *24 months*

**Storage Temp:** *Multi-temp*

**Specification Version:** *PS-T3060S/L v2.0*

**Effective Date:** *01 Nov 2021*

### 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.

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Date 01 Nov 2021

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