

## New England Biolabs Product Specification

*Product Name:* Monarch<sup>®</sup> Precipitation Enhancer  
*Catalog #:* T3055L  
*Shelf Life:* 24 months  
*Storage Temp:* 25°C  
*Composition:* Proprietary  
*Specification Version:* PS-T3055L v1.0  
*Effective Date:* 18 Feb 2021

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

**Functional Testing (Genomic DNA Yield and Integrity Analysis)** - 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.

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