

## New England Biolabs Product Specification

*Product Name:* Monarch<sup>®</sup> DNA Gel Extraction Kit  
*Catalog #:* T1020S/L  
*Kit Components:* Monarch<sup>®</sup> DNA Elution Buffer (T1016)  
Monarch<sup>®</sup> Gel Dissolving Buffer (T1021)  
Monarch<sup>®</sup> DNA Wash Buffer (T1032)  
Monarch<sup>®</sup> DNA Cleanup Columns (5 µg) (T1034)  
Monarch<sup>®</sup> Collection Tubes (2 ml) (T1018)  
*Shelf Life:* 18 months  
*Storage Temp:* 25°C  
*Specification Version:* PS-T1020S/L v1.0  
*Effective Date:* 08 Nov 2017

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

**Functional Testing (DNA Recovery and Purity)** - Twenty-four Monarch<sup>®</sup> DNA Cleanup Columns are tested with 1 µg of 1 Kb Ladder resulting in ≥75% recovery in ≥80% of the samples. OD 260/280 and 260/230 are ≥1.75 in ≥80% of the samples.

**Functional Testing (Gel Purification and Ligation)** - A linear pLA3 fragment is gel purified and added to 8 Monarch<sup>®</sup> DNA Cleanup Columns, eluted and ligated with Blunt/TA Ligase Master Mix resulting in ≥90% conversion to a multiband pattern observed by gel electrophoresis in ≥75% of the samples.



Date 08 Nov 2017

Derek Robinson  
Director of Quality Control

