

## New England Biolabs Product Specification

*Product Name:* Monarch<sup>®</sup> Plasmid Miniprep Kit  
*Catalog #:* T1010S/L  
*Kit Components:* Monarch<sup>®</sup> Plasmid Resuspension Buffer (B1) (T1011)  
Monarch<sup>®</sup> Plasmid Lysis Buffer (B2) (T1012)  
Monarch<sup>®</sup> Plasmid Neutralization Buffer (B3) (T1013)  
Monarch<sup>®</sup> Plasmid Wash Buffer 1 (T1014)  
Monarch<sup>®</sup> Plasmid Wash Buffer 2 (T1015)  
Monarch<sup>®</sup> DNA Elution Buffer (T1016)  
Monarch<sup>®</sup> Plasmid Miniprep Columns (T1017)

*Shelf Life:* 24 months  
*Storage Temp:* 25°C  
*Specification Version:* PS-T1010S/L v2.0  
*Effective Date:* 21 Mar 2019

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

**Functional Testing (DNA Recovery and Purity)** - Twenty-four Monarch<sup>®</sup> Plasmid Miniprep Columns are tested with 1.5 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 (Plasmid Purification and Restriction Digestion)** - pUC19 plasmid is purified from 8 NEB10-Beta samples using the Monarch<sup>®</sup> Plasmid Miniprep Kit and digested with XmnI resulting in ≥90% conversion to a linearized fragment and no visible gDNA or RNA observed by gel electrophoresis in ≥75% of the samples.



Date 21 Mar 2019

Derek Robinson  
Director of Quality Control

