

## New England Biolabs Product Specification

*Product Name:* Monarch<sup>®</sup> Total RNA Miniprep Enzyme Pack  
*Catalog #:* T2019L  
*Kit Components:* Monarch<sup>®</sup> Proteinase K (T2001)  
Monarch<sup>®</sup> Proteinase K Resuspension Buffer (T2002)  
Monarch<sup>®</sup> Proteinase K Reaction Buffer (T2003)  
Monarch<sup>®</sup> DNase I (T2004)  
Monarch<sup>®</sup> DNase I Reaction Buffer (T2005)  
Monarch<sup>®</sup> Nuclease-free Water (T2006)

*Shelf Life:* 24 months  
*Storage Temp:* 25°C  
*Specification Version:* PS-T2019L v2.0  
*Effective Date:* 24 Mar 2021

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

**Functional Testing (DNase I, Monarch<sup>®</sup>)** - A 50 µl reaction in Monarch<sup>®</sup> DNase I Reaction Buffer with 1 µg of pBR322 and 5 mU Monarch<sup>®</sup> DNase I incubated for 10 minutes at 37°C results in digestion of the DNA fragments to ≤500 bp as determined by agarose gel electrophoresis.

**Functional Testing (Proteinase K, Monarch<sup>®</sup>)** - A 20 µl reaction in Monarch<sup>®</sup> Proteinase K Reaction Buffer with 10 µg of MBP5 and 50 ng Monarch<sup>®</sup> Proteinase K incubated for 5 minutes at 37°C results in >75% digestion of the protein as determined by SDS-PAGE using Coomassie Blue detection.

One or more products referenced in this document may be covered by a 3rd-party trademark.  
Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Date 24 Mar 2021

Derek Robinson  
Director, Quality Control

