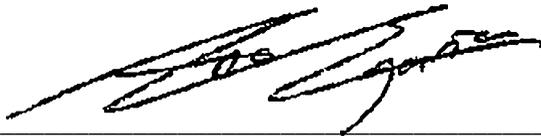


## New England Biolabs Certificate of Analysis

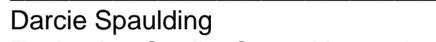
**Product Name:** *Monarch Total RNA Miniprep Enzyme Pack*  
**Catalog Number:** *T2019L*  
**Lot Number:** *10050575*  
**Expiration Date:** *01/2021*  
**Storage Temperature:** *25°C*  
**Specification Version:** *PS-T2019L v1.0*

Assay Name/Specification	Lot # 10050575
<p><b>Functional Testing (DNase I, Monarch<sup>®</sup>)</b>            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.</p>	<b>Pass</b>
<p><b>Functional Testing (Proteinase K, Monarch<sup>®</sup>)</b>            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 &gt;75% digestion of the protein as determined by SDS-PAGE using Coomassie Blue detection.</p>	<b>Pass</b>

This product has been tested and shown to be in compliance with all specifications.



Ana Egana  
 Production Scientist  
 01 Aug 2019



Darcie Spaulding  
 Packaging Quality Control Inspector  
 01 Aug 2019