

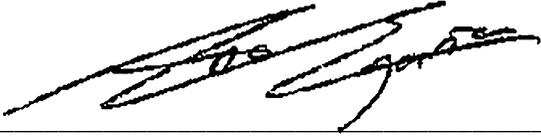
## New England Biolabs Certificate of Analysis

Product Name: *Monarch Total RNA Miniprep Enzyme Pack*  
 Catalog Number: *T2019L*  
 Packaging Lot Number: *10053947*  
 Expiration Date: *10/2021*  
 Storage Temperature: *25°C*  
 Specification Version: *PS-T2019L v1.0*

Monarch Total RNA Miniprep Enzyme Pack Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T2006-21	Monarch Nuclease-free Water	10054023	Pass
T2005-1	Monarch DNase I Reaction Buffer	10054020	Pass
T2004-1	Monarch DNase I	10054018	Pass
T2003-1	Monarch Proteinase K Reaction Buffer	10054016	Pass
T2002-1	Monarch Proteinase K Resuspension Buffer	10054014	Pass
T2001-1	Monarch Proteinase K	10054012	Pass

Assay Name/Specification	Lot # 10053947
<b>Functional Testing (DNase I, Monarch®)</b> A 50 µl reaction in Monarch® DNase I Reaction Buffer with 1 µg of pBR322 and 5 mU Monarch® 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.	Pass
<b>Functional Testing (Proteinase K, Monarch®)</b> A 20 µl reaction in Monarch® Proteinase K Reaction Buffer with 10 µg of MBP5 and 50 ng Monarch® 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.	Pass

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



---

Ana Egana  
Production Scientist  
11 May 2020



---

Heidi Church  
Packaging Quality Control Inspector  
11 May 2020