

## New England Biolabs Certificate of Analysis

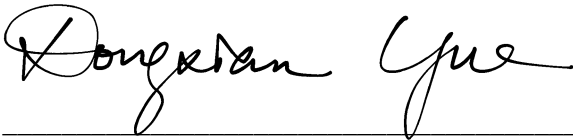
Product Name: *HiScribe® T7 ARCA mRNA Kit (with Tailing)*  
 Catalog Number: *E2060S*  
 Packaging Lot Number: *10192957*  
 Expiration Date: *11/2024*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-E2060S v1.0*

HiScribe® T7 ARCA mRNA Kit (with Tailing) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2053AVIAL	2X ARCA/NTP Mix	10186995	Pass
N0247AVIAL	CLuc Control Template	10145440	Pass
M0444AVIAL	E. coli Poly(A) Polymerase	10171452	Pass
M0303AAVIAL	DNase I (RNase-free)	10181026	Pass
M0255AAVIAL	T7 RNA Polymerase Mix	10190508	Pass
B2051AVIAL	LiCl Solution	10182597	Pass
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10176765	Pass

Assay Name/Specification	Lot # 10192957
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in HiScribe® T7 ARCA mRNA Kit (with tailing) and meet the designated specifications.</p>	Pass
<p><b>Functional Testing (RNA Synthesis, Yield)</b>            A 20 µl reaction in the presence of 1 X ARCA/NTP Mix containing 1 µg CLuc Control Template with 2 µl of the T7 RNA Polymerase Mix incubated for 30 minutes at 37°C results in a minimum of 15 µg of a 1.6 kb RNA as determined by OD 260 and agarose gel electrophoresis.</p>	Pass
<p><b>Functional Testing (RNA Tailing, Length)</b>            A 50 µl reaction in Poly(A) Polymerase Reaction Buffer containing a minimum of 15 µg of HiScribe™ RNA product and 5 µl of Poly(A) Polymerase incubated for 30 minutes at 37°C results in a visible shift of the 1.6 kb RNA band as determined by agarose gel electrophoresis.</p>	Pass

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

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Dongxian Yue  
Production Scientist  
06 Jun 2023



Josh Hersey  
Packaging Quality Control Inspector  
08 Jun 2023