

## New England Biolabs Certificate of Analysis

Product Name: *HiScribe™ T7 ARCA mRNA Kit (with Tailing)*  
 Catalog Number: *E2060S*  
 Packaging Lot Number: *10060648*  
 Expiration Date: *12/2020*  
 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	10042198	Pass
N0247AVIAL	CLuc Control Template	10035601	Pass
M0444AVIAL	E. coli Poly(A) Polymerase	10062216	Pass
M0303AAVIAL	DNase I (RNase-free)	10033737	Pass
M0255AAVIAL	T7 RNA Polymerase Mix	10033738	Pass
B2051AVIAL	LiCl Solution	10035960	Pass
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10051056	Pass

Assay Name/Specification	Lot # 10060648
<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
<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

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

*Dongxian Yue*

Dongxian Yue  
Production Scientist  
09 Dec 2019

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
19 Dec 2019