

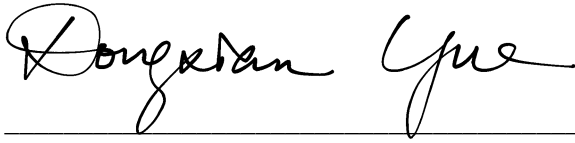
## New England Biolabs Certificate of Analysis

Product Name: *HiScribe™ T7 ARCA mRNA Kit (with Tailing)*  
 Catalog Number: *E2060S*  
 Packaging Lot Number: *10064630*  
 Expiration Date: *12/2020*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-E2060S v1.0*

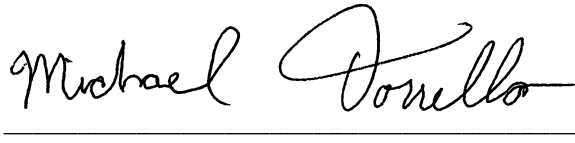
HiScribe™ T7 ARCA mRNA Kit (with Tailing) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2053AVIAL	2X ARCA/NTP Mix	10042198	Pass
N0247AVIAL	CLuc Control Template	10035601	Pass
M0444AVIAL	E. coli Poly(A) Polymerase	10062216	Pass
M0303AAVIAL	DNase I (RNase-free)	10033737	Pass
M0255AAVIAL	T7 RNA Polymerase Mix	10033738	Pass
B2051AVIAL	LiCl Solution	10035960	Pass
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10064699	Pass

Assay Name/Specification	Lot # 10064630
<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 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>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

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



Dongxian Yue  
Production Scientist  
22 Jan 2020



Michael Tonello  
Packaging Quality Control Inspector  
24 Jan 2020