

## New England Biolabs Certificate of Analysis

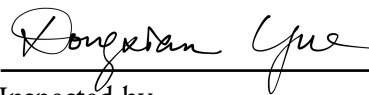
*Product Name:* HiScribe™ T7 ARCA mRNA Kit (with tailing)  
*Catalog #:* E2060S  
*Kit Components:* 2X ARCA/NTP Mix (N2053)  
 T7 RNA Polymerase Mix (M0255)  
 CLuc Control Template (N0247)  
 DNase I (M0303)  
 LiCl Solution (B2051)  
 E. coli Poly(A) Polymerase (M0444)  
 Poly(A) Polymerase Reaction Buffer (B0276)

*Lot #:* 0081803  
*Assay Date:* 03/2018  
*Expiration Date:* 09/2019  
*Storage Temp:* -20°C  
*Specification Version:* PS-E2060S v1.0  
*Effective Date:* 30 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0081803
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>



Authorized by  
Derek Robinson  
30 Apr 2018



Inspected by  
Dongxian Yue  
01 Mar 2018

