

## New England Biolabs Certificate of Analysis

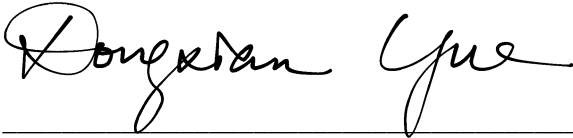
**Product Name:** *HiScribe® T7 ARCA mRNA Kit (with Tailing)*  
**Catalog Number:** *E2060S*  
**Packaging Lot Number:** *10228483*  
**Expiration Date:** *11/2025*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-E2060S v3.0*

HiScribe® T7 ARCA mRNA Kit (with Tailing) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2053AVIAL	2X ARCA/NTP Mix	10222012	Pass
N0247AVIAL	CLuc Control Template	10200019	Pass
M0444AVIAL	E. coli Poly(A) Polymerase	10229786	Pass
M0303AAVIAL	DNase I (RNase-free)	10215524	Pass
M0255AAVIAL	T7 RNA Polymerase Mix	10228791	Pass
B2051AVIAL	LiCl Solution	10210240	Pass
B1222AVIAL	0.1M DTT	10223625	Pass
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10176765	Pass

Assay Name/Specification	Lot # 10228483
<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>	<b>Pass</b>
<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 1.76 kb RNA as determined by OD 260 and agarose gel electrophoresis.</p>	<b>Pass</b>
<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 1.76 kb RNA band as determined by agarose gel electrophoresis.</p>	<b>Pass</b>

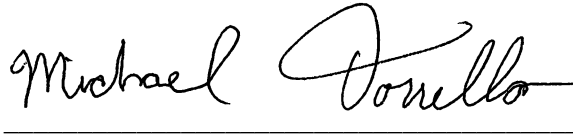
This product has been tested and shown to be in compliance with all specifications.

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27 Oct 2023



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Michael Tonello  
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15 Apr 2024