

## New England Biolabs Product Specification

*Product Name:* HiScribe<sup>®</sup> 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)

*Shelf Life:* 18 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E2060S v1.0  
*Effective Date:* 30 Apr 2018

### Assay Name/Specification (minimum release criteria)

**Functional Testing (RNA Synthesis, Yield)** - 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.

**Functional Testing (RNA Tailing, Length)** - A 50 µl reaction in Poly(A) Polymerase Reaction Buffer containing a minimum of 15 µg of HiScribe<sup>™</sup> 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.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in HiScribe<sup>®</sup> T7 ARCA mRNA Kit (with tailing) and meet the designated specifications.

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Date 30 Apr 2018

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