

New England Biolabs Product Specification

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 (RNase-free) (M0303)
LiCl Solution (B2051)
E. coli Poly(A) Polymerase (M0444)
Poly(A) Polymerase Reaction Buffer (B0276)
0.1M DTT (B1222)

Shelf Life: 18 months
Storage Temp: -20°C
Specification Version: PS-E2060S v2.0
Effective Date: 15 Aug 2023

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 1.76 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[™] 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.

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

One or more products referenced in this document may be covered by a 3rd-party trademark.
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Date 15 Aug 2023

Lauren Brown
Quality Approver

