

## New England Biolabs Product Specification

*Product Name:* HiScribe<sup>®</sup> T7 mRNA Kit with CleanCap<sup>®</sup> Reagent AG  
*Catalog #:* E2080S  
*Kit Components:* ATP (60 mM) (N0489)  
GTP (50 mM) (N0490)  
CTP (50 mM) (N0491)  
UTP (50 mM) (N0492)  
CleanCap<sup>®</sup> Reagent AG (40 mM) (S1413)  
10X T7 CleanCap<sup>®</sup> Reagent AG Reaction Buffer (B2082)  
CLuc AG Control Template (N2078)  
T7 RNA Polymerase Mix (M0255)  
DNase I (RNase-free) (M0303)  
LiCl Solution (B2051)

*Shelf Life:* 18 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E2080S v1.0  
*Effective Date:* 27 Oct 2021

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

**Functional Testing (RNA Synthesis, Yield)** - A 20 µl reaction in 1X T7 CleanCap<sup>®</sup> Reagent AG Reaction Buffer in the presence of 6 mM ATP, 5 mM GTP, 5 mM CTP, 5 mM UTP and 4 mM CleanCap<sup>®</sup> Reagent AG containing 1 µg CLuc AG Control Template with 2 µl of the T7 RNA Polymerase Mix incubated for 2 hours at 37°C results in a minimum of 90 µg of a 1.76 kb RNA as determined by OD 260 and agarose gel electrophoresis.

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

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Date 27 Oct 2021

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