

## New England Biolabs Product Specification

*Product Name:* HiScribe<sup>®</sup> T7 High Yield RNA Synthesis Kit  
*Catalog #:* E2040S  
*Kit Components:* ATP (N0451)  
GTP (N0452)  
UTP (N0453)  
CTP (N0454)  
10X T7 Reaction Buffer (B2041)  
FLuc Control Template (N0426)  
T7 RNA Polymerase Mix (M0255)  
0.1M DTT (B1222)

*Shelf Life:* 24 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E2040S v3.0  
*Effective Date:* 31 Jan 2024

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

**Functional Testing (RNA Synthesis, Yield)** - A 20 µl reaction in 1X T7 Reaction Buffer in the presence of 40 mM NTPs containing 1 µg FLuc Control Template with 2 µl of the T7 RNA Polymerase Mix incubated for 2 hours at 37°C results in a minimum of 150 µg of a 1.8 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 High Yield RNA Synthesis Kit and meet the designated specifications.

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Date 31 Jan 2024

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Quality Approver

