

## New England Biolabs Product Specification

**Product Name:** NEBNext<sup>®</sup> ARTIC SARS-CoV-2 RT-PCR Module  
**Catalog #:** E7626S/L  
**Kit Components:** LunaScript<sup>™</sup> RT SuperMix (E7651)  
Q5<sup>®</sup> Hot Start High-Fidelity 2X Master Mix (E7652)  
0.1X TE (E7657)  
Nuclease-free Water (E7667)  
NEBNext<sup>®</sup> ARTIC SARS-CoV-2 Primer Mix 1 (E7725)  
NEBNext<sup>®</sup> ARTIC SARS-CoV-2 Primer Mix 2 (E7726)  
NEBNext<sup>®</sup> VarSkip Short v2 SARS-CoV-2 Primer Mix 1 (E7872)  
NEBNext<sup>®</sup> VarSkip Short v2 SARS-CoV-2 Primer Mix 2 (E7873)

**Shelf Life:** 12 months  
**Storage Temp:** -20°C  
**Specification Version:** PS-E7626S/L v3.0  
**Effective Date:** 15 Feb 2022

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

**Functional Testing (ARTIC RT-PCR Module)** - Each set of reagents is functionally validated through construction of libraries made from 1000 copies of commercially available SARS-CoV-2 RNA in a background of 100ng of human reference RNA. A fragmentation time of 30 minutes is used to generate an insert size of approximately 100 bp. The final average library size is between 200 bp and 600 bp as determined by an Agilent Bioanalyzer<sup>®</sup> or TapeStation<sup>®</sup>. Libraries are sequenced together on an Illumina<sup>®</sup> flow cell and assessed across various metrics including library yield, mapping rate to the SARS-CoV-2 genome and amplicon coverage. For 0.5 million paired end reads, all expected amplicons are covered by at least 100 overlapping reads.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> ARTIC SARS-CoV-2 RT-PCR Module and meet the designated specifications.

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