

New England Biolabs Product Specification

<i>Product Name:</i>	NEBNext [®] ARTIC SARS-CoV-2 Library Prep Kit (Illumina [®])
<i>Catalog #:</i>	E7650S/L
<i>Kit Components:</i>	<p>LunaScript[™] RT SuperMix (E7651) — Store at -20°C</p> <p>Q5[®] Hot Start High-Fidelity 2X Master Mix (E7652) — Store at -20°C</p> <p>NEBNext[®] ARTIC SARS-CoV-2 Primer Mix 1 (E7725) — Store at -20°C</p> <p>NEBNext[®] ARTIC SARS-CoV-2 Primer Mix 2 (E7726) — Store at -20°C</p> <p>NEBNext[®] ARTIC Human Control Primer Pairs 1 (E7727) — Store at -20°C</p> <p>NEBNext[®] ARTIC Human Control Primer Pairs 2 (E7728) — Store at -20°C</p> <p>NEBNext[®] Ultra II[™] End Prep Enzyme Mix (E7653) — Store at -20°C</p> <p>NEBNext[®] Ultra II[™] End Prep Reaction Buffer (E7654) — Store at -20°C</p> <p>NEBNext[®] Ultra II[™] Ligation Master Mix (E7655) — Store at -20°C</p> <p>NEBNext[®] Library PCR Master Mix (E7656) — Store at -20°C</p> <p>0.1X TE (E7657) — Store at -20°C</p> <p>Nuclease-free Water (E7667) — Store at -20°C</p> <p>NEBNext[®] Sample Purification Beads (E7659) — Store at 25°C</p>
<i>Shelf Life:</i>	12 months
<i>Storage Temp:</i>	Multi-temp
<i>Specification Version:</i>	PS-E7650S/L v1.0
<i>Effective Date:</i>	18 Feb 2021

Assay Name/Specification (minimum release criteria)

Functional Testing (Library Construction, ARTIC UII DNA) - 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. The amplified cDNA used in library construction is not fragmented resulting in a final average library size of between 450 bp and 600 bp as determined by an Agilent Bioanalyzer[®] or TapeStation[®]. Libraries are sequenced together on an Illumina[®] 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[®] ARTIC SARS-CoV-2 Library Prep Kit (Illumina[®]) and meet the designated specifications.



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Date 18 Feb 2021

Derek Robinson
Director, Quality Control

