

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® ARTIC SARS-CoV-2 RT-PCR Module  
**Catalog Number:** E7626L  
**Packaging Lot Number:** 10188385  
**Expiration Date:** 05/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E7626S/L v3.0

| NEBNext® ARTIC SARS-CoV-2 RT-PCR Module Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number  | Component Description                             | Lot Number | Individual QC Result |
| E7873AAVIAL  | NEBNext® VarSkip Short v2 SARS-CoV-2 Primer Mix 2 | 10188393   | Pass                 |
| E7872AAVIAL  | NEBNext VarSkip Short v2 SARS-CoV-2 Primer Mix 1  | 10188392   | Pass                 |
| E7726AAVIAL  | NEBNext® ARTIC SARS-CoV-2 Primer Mix 2            | 10188391   | Pass                 |
| E7725AAVIAL  | NEBNext® ARTIC SARS-CoV-2 Primer Mix 1            | 10188390   | Pass                 |
| E7667AVIAL   | Nuclease-free Water                               | 10188389   | Pass                 |
| E7657AVIAL   | 0.1X TE   | 10188388   | Pass                 |
| E7652AAVIAL  | Q5® Hot Start High-Fidelity 2X Master Mi          | 10188387   | Pass                 |
| E7651AAVIAL  | LunaScript™ RT SuperMix                           | 10188386   | Pass                 |

| Assay Name/Specification  | Lot # 10188385 |
|---|----------------|
| <p><b>* Individual Product Component Note</b><br/>Standard Quality Control Tests are performed for each component included in NEBNext® ARTIC SARS-CoV-2 RT-PCR Module and meet the designated specifications.</p>   | Pass           |
| <p><b>Functional Testing (ARTIC RT-PCR Module)</b><br/>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® 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.</p> | Pass           |

This product has been tested and shown to be in compliance with all specifications.

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Christine Sumner  
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27 Jun 2023



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Michael Tonello  
Packaging Quality Control Inspector  
28 Jun 2023