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New England Biolabs Certificate of Analysis

Product Name: Template Switching RT Enzyme Mix

Catalog Number: M0466L

Concentration: 10 X Concentrate

Packaging Lot Number: 10205019
Expiration Date: 02/2025
Storage Temperature: -20°C

Specification Version: PS-M0466S/L v1.0

Template Switching RT Enzyme Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0466LVIAL	Template Switching RT Enzyme Mix	10202117	Pass	
B0466SVIAL	Template Switching RT Buffer	10178823	Pass	

Assay Name/Specification	Lot # 10205019
Functional Testing (Library Construction, Single Cell RNA) Template Switching RT Enzyme Mix and Template Switching RT Buffer are functionally validated and compared to previous lots through construction of libraries made from single cells and commercially available RNA using input amounts between 2 pg and 200 ng. Libraries made from previous and current lots are sequenced together on the same Illumina® flow cell and compared across various metrics including library yield, individual transcript abundance, 5'-3' transcript coverage, percent ribosomal RNA, and fraction of reads mapping to a reference.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 1 µl of Template Switching RT Enzyme Mix incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Template Switching RT Enzyme Mix is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 μl of Template Switching RT Enzyme Mix is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli	Pass



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16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA	
contamination is ≤ 1 E. coli genome.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lea Antonpoulos

Production Scientist

22 Aug 2023

Michael Tonello

Packaging Quality Control Inspector

31 Aug 2023

