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## New England Biolabs Certificate of Analysis

Product Name: WarmStart® RTx Reverse Transcriptase

Catalog Number: M0380S Concentration: 15,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 1

nmol of dTTP into acid-insoluble material in 20 minutes at 50°C.

Packaging Lot Number: 10135704
Expiration Date: 12/2023
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0380S/L v3.0

WarmStart® RTx Reverse Transcriptase Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0380SVIAL	WarmStart® RTx Reverse Transcriptase	10132076	Pass	
B1003SVIAL	Magnesium Sulfate (MgSO₄) Solution	10118450	Pass	
B0537SVIAL	Isothermal Amplification Buffer	10128740	Pass	

Assay Name/Specification	Lot # 10135704
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 15 units of WarmStart® RTx Reverse Transcriptase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
<b>qPCR DNA Contamination (E. coli Genomic)</b> A minimum of 15 units of WarmStart® RTx Reverse Transcriptase is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 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.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in Isothermal Amplification Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 15 units of RTx Reverse Transcriptase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass



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**Pass** 

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

RTx Reverse Transcriptase is ≥ 99% pure as determined by SDS-PAGE analysis using

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Christie Vazquez Production Scientist 06 Jan 2022

**Protein Purity Assay (SDS-PAGE)** 

vistie Vazguez

Coomassie Blue detection.

Michael Tonello

Packaging Quality Control Inspector

06 Jan 2022

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