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New England Biolabs Certificate of Analysis

Product Name: Therminator™ DNA Polymerase

Catalog Number: M0261S
Concentration: 2,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 10

nmol of dNTP into acid insoluble material in 30 minutes at 75°C.

Packaging Lot Number: 10071264
Expiration Date: 03/2022
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-M0261S/L v2.0

Therminator™ DNA Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0261SVIAL	Therminator™ DNA Polymerase	10069199	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10072023	Pass	

Assay Name/Specification	Lot # 10071264
Endonuclease Activity (Nicking) A 50 μl reaction in ThermoPol® Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 20 units of Therminator™ DNA Polymerase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in ThermoPol® Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 20 units of Therminator™ DNA Polymerase incubated for 4 hours at 37°C and 75°C releases <0.1% of the total radioactivity.	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 2 units of Therminator™ DNA Polymerase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Phosphatase Activity (pNPP)	Pass



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

gel electrophoresis using fluorescent detection.

vistie Vazguez

Christie Vazquez
Production Scientist

17 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

17 Jul 2020



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