

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	T4 DNA Polymerase
Catalog Number:	M0203L
Concentration:	3,000 U/mI
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 37°C.
Packaging Lot Number:	10243044
Expiration Date:	12/2025
Storage Temperature:	-20°C
Storage Conditions:	100 mM KPO4 , 1 mM DTT , 50 % Glycerol, (pH 6.5 @ 25°C)
Specification Version:	PS-M0203S/L v1.0

T4 DNA Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0203LVIAL	T4 DNA Polymerase	10221775	Pass	
B6002SVIAL	NEBuffer™ r2.1	10231025	Pass	

Assay Name/Specification	Lot # 10243044
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 2 containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 50 units of T4 DNA Polymerase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 100 units T4 DNA Polymerase incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
Protein Purity Assay (SDS-PAGE) T4 DNA Polymerase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 3 units of T4 DNA Polymerase 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	Pass





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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 Antonopoulos Production Scientist 20 Feb 2024

Michae 1...

Michael Tonello Packaging Quality Control Inspector 04 Jun 2024

