

New England Biolabs Certificate of Analysis

Product Name: NEBExpress[®] T4 Lysozyme
Catalog Number: P8115S
Concentration: 1 mg/ml
Packaging Lot Number: 10215865
Expiration Date: 10/2025
Storage Temperature: -20°C
Storage Conditions: 50 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 0.03% Poloxamer 188, 50% Glycerol (pH 7.5 @ 25°C)
Specification Version: PS-P8115S/L v1.0

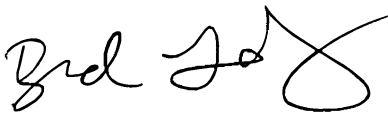
NEBExpress [®] T4 Lysozyme Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P8115SVIAL	NEBExpress [®] T4 Lysozyme	10212171	Pass

Assay Name/Specification	Lot # 10215865
Endonuclease Activity (Nicking) A 50 µl reaction in rCutSmart [™] Buffer containing 1 µg of supercoiled PhiX174 RF I DNA and a minimum of 1 µg of NEBExpress [®] T4 Lysozyme incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Functional Testing (NEBExpress[®] T4 Lysozyme) A 200 µl reaction in 50 mM Tris-HCl pH 7.5 containing Micrococcus lysodeikticus suspension and a minimum of 0.5 µg NEBExpress [®] T4 Lysozyme incubated for 10 minutes at 25°C results in a decrease in turbidity of ≥ 0.05 as determined by real-time UV spectroscopy at 450 nm.	Pass
Protein Purity Assay (SDS-PAGE) NEBExpress [®] T4 Lysozyme is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 µg of NEBExpress [®] T4 Lysozyme is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

Assay Name/Specification	Lot # 10215865
<p>qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µg of NEBExpress® T4 Lysozyme 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.</p>	<p>Pass</p>

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.



Brad Landgraf
Production Scientist
26 Oct 2023



Michael Tonello
Packaging Quality Control Inspector
30 Oct 2023