

## New England Biolabs Certificate of Analysis

**Product Name:** NEBExpress<sup>®</sup> T4 Lysozyme  
**Catalog Number:** P8115S  
**Concentration:** 1 mg/ml  
**Packaging Lot Number:** 10189602  
**Expiration Date:** 04/2025  
**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

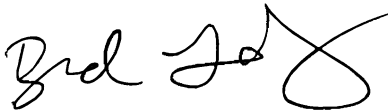
NEBExpress <sup>®</sup> T4 Lysozyme Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P8115SVIAL	NEBExpress <sup>®</sup> T4 Lysozyme	10188250	Pass

Assay Name/Specification	Lot # 10189602
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in rCutSmart <sup>™</sup> Buffer containing 1 µg of supercoiled PhiX174 RF I DNA and a minimum of 1 µg of NEBExpress <sup>®</sup> T4 Lysozyme incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Functional Testing (NEBExpress<sup>®</sup> T4 Lysozyme)</b> A 200 µl reaction in 50 mM Tris-HCl pH 7.5 containing Micrococcus lysodeikticus suspension and a minimum of 0.5 µg NEBExpress <sup>®</sup> 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.	<b>Pass</b>
<b>Protein Purity Assay (SDS-PAGE)</b> NEBExpress <sup>®</sup> T4 Lysozyme is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	<b>Pass</b>
<b>RNase Activity (Extended Digestion)</b> 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 <sup>®</sup> 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.	<b>Pass</b>

Assay Name/Specification	Lot # 10189602
<p><b>qPCR DNA Contamination (E. coli Genomic)</b> 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><b>Pass</b></p>

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

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Brad Landgraf  
Production Scientist  
24 Apr 2023



Michael Tonello  
Packaging Quality Control Inspector  
25 Apr 2023