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## New England Biolabs Certificate of Analysis

Product Name: Thermolabile Proteinase K

Catalog Number: P8111S
Concentration: 120 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to release 1.0

µmol of 4-nitroaniline per minute from

N-Succinyl-Ala-Ala-Pro-Phe-p-nitroanilide at 25°C in a total

reaction volume of 105 μl.

Packaging Lot Number: 10126953
Expiration Date: 11/2023
Storage Temperature: -20°C

Storage Conditions: 20 mM Tris-HCl, 1 mM CaCl2, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-P8111S v1.0

Thermolabile Proteinase K Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
P8111SVIAL	Thermolabile Proteinase K	10126952	Pass	

Assay Name/Specification	Lot # 10126953
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 µl of Thermolabile Proteinase K is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
<b>qPCR DNA Contamination (Eukaryotic Genomic)</b> A minimum of 0.12 units of Thermolabile Proteinase K is screened for the presence of eukaryotic genomic DNA using SYBR® Green qPCR with universal primers for the 18S rRNA locus. Results are quantified using a standard curve generated from purified E. album genomic DNA. The measured level of eukaryotic genomic DNA contamination is ≤ 2.5 pg DNA/μl.	Pass
Single Stranded DNase Activity (FAM-Labeled Oligo) A 50 µl reaction in CutSmart® Buffer containing a 20 nM solution of a fluorescent internal labeled oligonucleotide and a minimum of 0.6 units of Thermolabile Proteinase K incubated for 16 hours at 37°C yields <5% degradation as determined by capillary electrophoresis.	Pass



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Assay Name/Specification	Lot # 10126953
qPCR DNA Contamination (E. coli Genomic)	Pass
A minimum of 0.12 units of Thermolabile Proteinase K 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.	

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.

Alicia Bielik

Production Scientist

12 Nov 2021

Michael Tonello

Packaging Quality Control Inspector

12 Nov 2021

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