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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:	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:	10217658
Expiration Date:	09/2025
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
P8111SVIAL	Thermolabile Proteinase K	10206109	Pass	

Assay Name/Specification	Lot # 10217658
RNase Activity (Extended Digestion) A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l 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
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
qPCR DNA Contamination (E. coli Genomic) 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 \leq 1 E. coli genome.	Pass





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Assay Name/Specification	Lot # 10217658
qPCR DNA Contamination (Eukaryotic Genomic) A minimum of 0.12 units of Thermolabile Proteinase K is screened for the presence of	Pass
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.	

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.

Beth M. Pasch

Beth Paschal Production Scientist 03 Oct 2023

Josh Hersey

Packaging Quality Control Inspector 29 Nov 2023

