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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
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:	10058664
Expiration Date:	10/2021
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	10055880	Pass	

Assay Name/Specification	Lot # 10058664
qPCR DNA Contamination (Eukaryotic Genomic) 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/µI.	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
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
Single Stranded DNase Activity (FAM-Labeled Oligo)	Pass





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Assay Name/Specification	Lot # 10058664
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.	

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

Beth M. Pasch

Beth Paschal Production Scientist 11 Oct 2019

Michae m. W.

Michael Tonello Packaging Quality Control Inspector 15 Nov 2019

