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New England Biolabs Certificate of Analysis

Product Name: Hemo KlenTag®

Catalog Number: M0332L
Unit Definition: N/A
Packaging Lot Number: 1022953

Packaging Lot Number: 10229536
Expiration Date: 02/2026
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 0.5 % Tween®

20 , 0.5 % IGEPAL® CA-630 , 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0332S/L v2.0

Hemo KlenTaq® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0332LVIAL	Hemo KlenTaq®	10229535	Pass	
B0332SVIAL	Hemo KlenTaq® Reaction Buffer	10205346	Pass	

Assay Name/Specification	Lot # 10229536
Endonuclease Activity (Nicking) A 50 μl reaction in Hemo KlenTaq® Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 8 μl of Hemo KlenTaq® incubated for 4 hours at 37°C and 75°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 2 containing 1 μg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 1 μl of Hemo KlenTaq® incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
PCR Amplification (0.5 kb Whole Blood DNA) A 50 μl reaction in Hemo KlenTaq® Reaction Buffer in the presence of 200 μM dNTPs and 0.3 μM primers containing 10% whole blood treated with sodium heparin, sodium EDTA, potassium EDTA or sodium citrate with 4 μl of Hemo KlenTaq® for 35 cycles of PCR amplification results in the expected 0.5 kb product.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 2 µl Hemo KlenTaq® incubated for 4	Pass



M0332L / Lot: 10229536

Page 1 of 2



Assay Name/Specification	Lot # 10229536
hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	
Protein Purity Assay (SDS-PAGE) Hemo KlenTaq® is ≥ 99% 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 µl of Hemo KlenTaq® 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 20 µl reaction in Hemo KlenTaq® Reaction Buffer containing a 10 nM solution of a fluorescent internal labeled oligonucleotide and a minimum of 8 µl of Hemo KlenTaq® incubated for 30 minutes at 37°C and 75°C yields <10% degradation as determined by capillary electrophoresis.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 μl of Hemo KlenTaq® 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.	Pass

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.

Lea Antonopoulos Production Scientist 08 Feb 2024

Josh Hersey

Packaging Quality Control Inspector

10 Feb 2024



M0332L / Lot: 10229536

Page 2 of 2