

Certificate of Analysis

Product Name: 2X Tag PCR Master Mix (with dye)

Cat. No.: K1034 **Batch No.:** 57

Physical and Chemical Properties

Production Date:	Aug 2020	
Expiration Date:	Aug 2022	
Storage:	-20°C	E Labo e me United

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Analytical Data

A 50 μL reaction in PCR Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 20 units of Taq DNA Polymerase	
PhiX174 DNA and a minimum of 20 units of Taq DNA Polymerase	
incubated for 4 hours at either 37°C or 75°C results in <10% conversion to	
the nicked form as determined by agarose gel electrophoresis.	
Non-Specific DNase Activity (16 hour, Buffer) Pass	S Joe Life United
A 50 μL reaction in 1X Tag PCR Master Mix containing 1 μg of T3 DNA in	A Particular Et
addition to a reaction containing Lambda-HindIII DNA incubated for 16	Range Comment
hours at 37°C results in a DNA pattern free of detectable nuclease	
degradation as determined by agarose gel electrophoresis.	
PCR Amplification (5 kb Lambda, Master Mix)	6
A 25 μL reaction in Taq PCR Master Mix and 0.2 μM primers	
containing 5 ng Lambda DNA for 25 cycles of PCR amplification results in	-10
the expected 5 kb product.	The United States
Phosphatase Activity (pNPP)	B. B. Ballon F. Ballon
A 200 μL reaction in 1M Diethanolamine, pH 9.8, 0.5 mM, MgCl ₂	Active of all
containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of	
100 units of Taq DNA Polymerase incubated for 4 hours at 37°C yields	
< 0.0001 unit of alkaline phosphatase activity as determined by	
spectrophotometric analysis.	
Protein Purity Assay (SDS-PAGE)	6
Taq DNA Polymerase is ≥ 99% pure as determined by SDS-PAGE	

analysis using Coomassie Blue detection.

qPCR DNA Contamination (E. coli Genomic)

A minimum of 5 units of Taq DNA Polymerase 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.

Aixuan Li

Quality Assurance

Signed by:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.



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