

Progeno™ Master Mix

Features

- ❖ Superior gene expression results under various cycling conditions.
- ❖ Enhanced efficiency, specificity, and sensitivity.
- ❖ Compatible with all the real-time PCR instruments.
- ❖ High throughput quantitative PCR applications.
- ❖ Ultra-sensitive and highly reproducible allowing more samples to run, perfect for multiplexing.
- Amplification of RNA by reverse transcription-quantitative real time PCR (RT-qPCR).

Applications

- ❖ Detection of pathogenic targets with high specificity and sensitivity.
- ❖ Nucleic acid amplification and gene expression profiling.
- ❖ Genotyping and genetic variation analysis.
- Detection of viral loads.
- Detection of copy number variations.

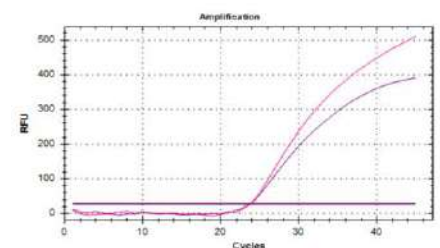
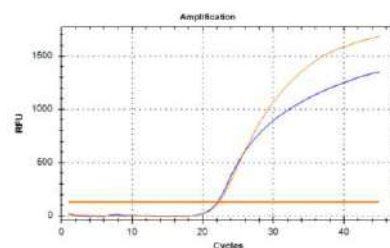
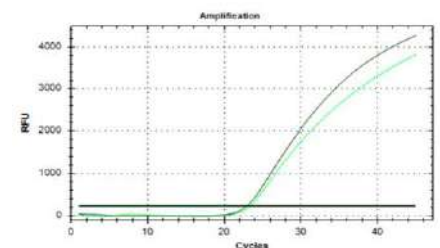
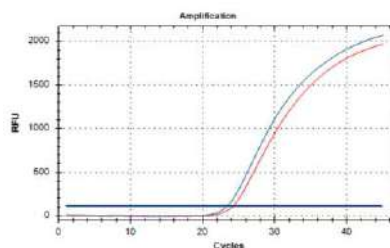
Product Description

Progeno™ Master Mix is a ready-to-use 2x solution optimized for fast mode on qPCR instruments and fast cycling conditions. The Pre-mix contains antibody-mediated hot-start DNA polymerase, dNTPs, MgCl₂, enhancers, and stabilizers for robust fluorescent signals. Master mix is formulated for use with probe-detection technology, including TaqMan, scorpion and molecular beacon probes. A combination of antibody modified DNA polymerase with the optimized 2x master mix eliminates the nonspecific amplification of DNA in PCR reactions.

Characterization Studies

➤ Performance Evaluation

Progeno™ Master Mix was evaluated for the amplification of different targets from Sepsis panel. Our master mix was compared against commercial master mix. Amplification plots from Sepsis panel with different targets are compared and it was matching with commercial master mix.



Quality Control Assays

- ❖ Nuclease assays: No detectable endonuclease, exonuclease, and RNase activity.
- ❖ *E. coli* host contamination: No *E. coli* DNA contamination was detected in qPCR with specific primers targeting 16S rRNA gene.
- ❖ Functional assay: PCR master mix for Diagnostics tested extensively for its reproducible performance in critical PCR amplifications.

ISO9001:2015



ISO13485:2016



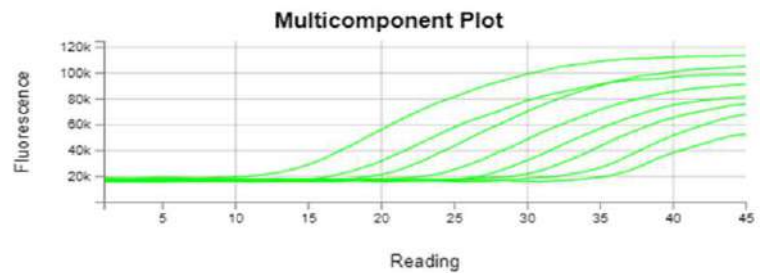
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➤ Accurate quantitation and high stability

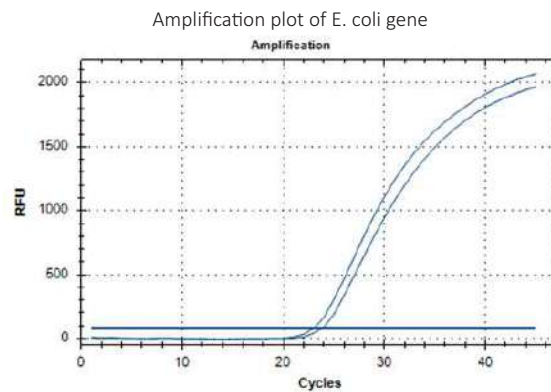
Progeno™ Master Mix showed accurate quantitation and high stability for PCR reactions with serial dilutions (10-fold) of templates.



Comparative Studies

E. coli gene amplification

■ Progeno™ Master Mix showed high sensitivity and increased efficiency with low Ct value and stronger fluorescent signals. The relative fluorescence unit is equivalent to commercial mix.



Specification

Storage condition	-20°C
Detection method	Probe based
Repeated freeze/thaw cycles	Up to 10 times
Hot-start mechanism	Antibody-mediated
Master mix concentration	2x
Thermal cycling protocol	Standard
Hot-start activation	95°C, 2min
Template compatibility	cDNA, genomic DNA, plasmid DNA, RNA

Ordering Information

Cat#	PI.No.	Progeno™ Master Mix	Pack Size
0606400021730	MME64L	Progeno™ Master Mix	50 rxns
0606400031730	MME64J	Progeno™ Master Mix	200 rxns