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Medix Biochemica

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Product Manual
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qPCR Lyo-Ready Mix

Description

qPCR Lyo-Ready Mix is a universal probe mix that is ready to be lyophilized to produce stable reagents at room temperature. Upon addition of target specific primers/probes to the master mix, the mixture is lyophilized directly, without the need to add additional excipients.

qPCR Lyo-Ready Mix allows robust, sensitive, and fast qPCR. The mix uses state-of-the-art technologies with an antibody-regulated hot-start Taq polymerase for real-time PCR amplification of single or multiplex DNA targets in a single reaction chamber or tube. The optimized excipients, buffer chemistry, and PCR enhancers and stabilizers enable rapid and sensitive qPCR.

qPCR Lyo-Ready Mix is compatible with several probes such as TaqMan® and Scorpions®. This allows rapid detection and quantification of a variety of DNA targets including complex and GC- and AT-rich DNA targets.

Kit Components

Component	S pack*	M pack*
qPCR Lyo-Ready Mix (2x)	4 x 1.25 mL	100 mL

*Other pack sizes and bulk orders are available upon request.

Storage and Shipment

Transport with an ice pack. The reagents should be stored at -20°C upon arrival. The reagents are stable until the expiration date if stored correctly.

Reaction Master Mix Set-Up

The recommended master mix set-up for a 20 µL reaction volume is shown in the table below.

Reagent	Volume (µL)	Final concentration
qPCR Lyo-Ready Mix (2x)	10	1x
∞Forward primer (10µM)	X	100–500 nM
∞Reverse primer (10µM)	X	100–500 nM
∞Probe (10µM)	X	50–250 nM
DNA/cDNA template	2-8	Variable
Nuclease-free Water	Up to 20 µL final volume	

∞Primers and probes should be specific to the target DNA/RNA of interest. The recommended Tm for primers is between 56°C and 60°C, and the Tm for probes should be between 65°C and 70°C.

Instrument and Program Set-Up

Cycles	Steps	Temperature	Time
1	Polymerase activation	95°C	1 min
40	Denaturation	95°C	5 sec
	**Annealing/ Extension	60°C	30 sec

**The annealing/extension step can be reduced to 20 seconds.