

## MedixMDx qPCR Lyo ready mix Cat. No: MX6101

### Product Information Leaflet

#### Description

MedixMDx 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 mastermix, the mixture is lyophilized directly, without the need to add additional excipients.

MedixMDx 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.

MedixMDx 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

Kit size*	MedixMDx qPCR Lyo ready mix (2x)
<b>MX6101-5</b> 500 rxn	5 mL
<b>MX6101-100</b> 10,000 rxn	100 mL

\*Other pack sizes or bulk orders are available upon request.

#### Storage and shipment

Transport with an ice pack or on dry ice (for shipments taking more than 2 days). The reagents should be stored between -30°C and -15°C upon arrival. The reagents are stable for 12 months if stored correctly.

#### Reaction mastermix set-up

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

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

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

#### Instrument and program set-up

Number of cycles	Step	Temperature	Time
1	Polymerase activation	95°C	2–3 min
40	Denaturation	95°C	5 sec
	**Annealing/extension	60°C	30 sec

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

#### Technical information and support

For technical enquiries or assay development support, please contact us via e-mail at: [mdx@medixbiochemica.com](mailto:mdx@medixbiochemica.com). Additional information and technical resources are available on our website at: [www.medixbiochemica.com/en/MedixMDx](http://www.medixbiochemica.com/en/MedixMDx).