

## MedixMDx qProbe Mix Separate-ROX Cat. No: MX2102

### Product Information Leaflet

#### Description

MedixMDx qProbe Mix is a universal one-step probe mix for 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 buffer chemistry and PCR enhancers and stabilizers enable rapid and sensitive qPCR.

MedixMDx qProbe 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 qProbe Mix No-ROX (2x)	50 µM ROX Additive
<b>MX2102-1</b> 100 rxn (1 mL)	1 mL	0.2 mL
<b>MX2102-5</b> 500 rxn (5 mL)	5 X 1 mL	0.2 mL
<b>MX2102-50</b> 50,000 rxn (50 mL)	50 mL	2 X 0.52 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
2x MedixMDx qProbe Mix	10	1x
∞Forward primer	X	100–500 nM
∞Reverse primer	X	100–500 nM
∞Probe	X	50–250 nM
20x RTase Amp	0.2	Titrate between 0.1 and 1 µL
DNA/cDNA template	2–8	Variable
Nuclease-free water	Up to 20 µL final volume	
Total volume	20 µL	

\*If your qPCR instrument requires ROX correction, add ROX additive to the mastermix at a final concentration of 500 and 50 nM for HI-ROX and LOW-ROX instruments, respectively.

∞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).