

MedixMDx qGreen Mix Separate-ROX Cat. No: MX2101

Product Information Leaflet

Description

MedixMDx qGreen Mix is a universal intercalating dye mix for robust, sensitive, and fast qPCR. MedixMDx qGreen Mix uses state-of-the-art technologies with an antibody-regulated hot-start Taq polymerase and intercalating dye for real-time PCR amplification/detection in a single reaction chamber or tube. The optimized buffer chemistry and PCR enhancers and stabilizers enable rapid and sensitive qPCR.

MedixMDx qGreen Mix antibody hot-start technology prevents the formation of primer dimers and non-specific reaction. The enzyme is compatible with fast and standard cycling and a variety of DNA templates such as GC- and AT-rich DNA templates.

Kit components

Kit size*	MedixMDx qGreen Mix No- ROX (2x)	50 µM ROX Additive
MX2101-1 100 rxn (1 mL)	1 mL	0.2 mL
MX2101-5 500 rxn (5 mL)	5 X 1 mL	0.2 mL
MX2101-50 50,000 rxn (50 mL)	50 mL	2 X 0.2 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 qGreen Mix No- ROX (2x)	10	1X
∞Forward primer	X	100–500 nM
∞Reverse primer	X	100–500 nM
DNA/cDNA	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 should be specific to the target DNA of interest. The recommended T_m for primers is between 56°C and 60°C.

Instrument and program set-up

Number of cycles	Step	Tempera- ture	Time
1	Polymerase activation	95°C	2–3 min
40	Denaturation	95°C	5 sec
	*Annealing/ extension	60°C	30 sec
Optional melting curve analysis			

*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. Additional information and technical resources are available on our website at: www.medixbiochemica.com/en/MedixMDx.