

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) |
|---------------------------------|----------------------------------|
| MX6101-5 500 rxn | 5 mL |
| MX6101-100 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. Additional information and technical resources are available on our website at: www.medixbiochemica.com/en/MedixMDx.