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DATA SHEET

Version: 03
Revision date: 15/03/2023

1. Identification

Product name

qMAXSen™ Green qPCR MasterMix (2X) (High ROX™)

500 rxn

Cat. No: E0539

2. Description

qMAXSen™ Green qPCR MasterMix (2x) High ROX™, is a convenient ready to use premix to perform real-time PCR using an analogue fluorescent dye to **SYBR®Green**. The master mix formulation is supplied at 2X concentration and contains all PCR components required for amplification and quantitation of DNA except primers and DNA template.

3. Composition

Item	Quantity
qMAXSen™ Green qPCR MasterMix (2x) High Rox™	4 x 1.25 ml

4. Storage specifications

qMAXSen™ Green qPCR MasterMix (2x) High ROX™ is shipped on dry/blue ice. The Master Mix should bestored at **-20˚C** upon receipt. Avoid repeated freezing and thawing.

5. Features

- Ready-to-use Master Mix.
- Higher specificity, sensitivity, and yield.
- Compatible with most real-time PCR instruments.

6. Applications

- Detection and quantification of DNA and cDNA targets
- Gene expression
- Low copy detection
- High throughput applications
- qPCR for post reverse transcription step

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7. Recommended Protocol

1. Thaw qMAXSen™ Green qPCR MasterMix (2x) High ROX™, template DNA, primers and nuclease-free H_2O on ice. Mix each solution well.

The following protocol is recommended for a 20 µl reaction volume:

2. Set up the following reaction mixture:

Component	Volume reaction 20 µL	Final concentration
qMAXSen™ Green qPCR MasterMix (2x)	10 µL	1X
Forward Primer	X µL	200 nM(1)
Reverse Primer	X µL	200 nM(1)
Template DNA	X µL	≤500 ng /reaction (2)
Nuclease-Free Water to a final volume of	20 µL	

(1) For optimal performance, use a minimum of 200 nM of each primer.
(2) For optimal performance, use cDNA corresponding to 1 pg to 500 ng of total RNA. For genomic DNA, do not exceed 100 ng.

3. Mix reagents completely, and then transfer to a thermocycler.

4. Program the appropriate PCR cycling protocol on your real-time PCR instrument:

Step	Temperature	Duration	Cycles
Enzyme Activation	95°C	5 min	1
Denaturation	95°C	15 sec	40
Annealing/Extension	60°C	1 min	
Melting Curve	Refer to specific guidelines for instrument used		

As with all Real-Time PCR reactions, conditions may need to be optimized. You may be able to adjust your PCR conditions to optimize reaction.

8. Further information

Product Use Limitations This product is developed, designed, and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Disclaimer The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. **Canvax Reagents S.L.U**. shall not be held liable for any damage resulting from handling or from contact with the above product.