Data sheet

qMAXSen™ Green qPCR MasterMix (2X)

Introduction

qMAXSen™ Green qPCR MasterMix (2x), supplied in a 2X concentration, is a convenient ready to use premix to perform real-time PCR using an **analogue fluorescent dye to SYBR®Green**. The master mix contains all the reagent (except PCR primers and template) needed for running PCR reactions.

Available with the option of ROX™ as the internal passive reference dye. The ROX™ dye provides an internal reference to which the reporter-dye signal can be normalized during data analysis.

Features

- Ready-to-use Master Mix.
- Higher specificity, sensitivity, and yield.
- Available with ROX™ as reference dye.
- Compatible with most real-time PCR instruments.

Applications

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

Quality Control

Functionally tested in Real Time PCR on Applied Biosystems StepOne® Real-Time PCR System.

Contents

Description	Cat. No	Size
w/o ROX™	E0530	2x1.25 ml (250 rxn)
	E0534	4x1.25 ml (500 rxn)
	E0535	16x1.25 ml (2000 rxn)
	E0540	4x12.5 ml (5000 rxn)
Low ROX™	E0531	2x1.25 ml (250 rxn)
	E0537	4x1.25 ml (500 rxn)
	E0538	16x1.25 ml (2000 rxn)
	E0541	4x12.5 ml (5000 rxn)
High ROX™	E0532	2x1.25 ml (250 rxn)
	E0539	4x1.25 ml (500 rxn)
	E0546	16x1.25 ml (2000 rxn)
	E0542	4x12.5 ml (5000 rxn)

Storage

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

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BASIC REACTION CONDITIONS FOR REAL TIME PCR AMPLIFICATIONS

1. Thaw qMAXSen™ Green qPCR MasterMix (2x), 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

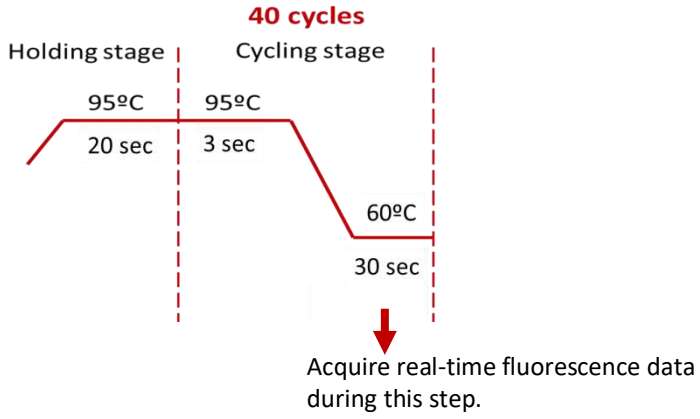
Component	Volume reaction 20 µL	Final concentration
qMAXSen™ Green qPCR MasterMix (2x)	10 µL	1X
Forward Primer	X µL	200 nM(1)
Reverse Primer	X µL	200 nM(1)
Template DNA	X µL	10-100 ng /reaction(2)
Nuclease-Free Water to a final volume of	20 µL	

(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

Amplification protocol (for Applied Biosystems StepOne® Real-Time PCR System):



✓ *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.*

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to www.canvaxbiotech.com for Material Safety Data Sheet of the product.
Trademarks: qMAXSen™ (Canvax Biotech SL), SYBR®(Molecular Probes), ROX™ (Roche), StepOne™ (ABI).

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