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# DATA SHEET

Version: 02
Revision date: 10/2022

## 1. Identification

**Product name** **qMAXSen™ Green qPCR MasterMix (w/o ROX™)**

| | | |
|---|---|---|
| **Cat. No:** | **E0530** | **250 rxn** |
| | **E0534** | **500 rxn** |
| | **E0535** | **2000 rxn** |
| | **E0540** | **5000 rxn** |

## 2. Description

**qMAXSen™ Green qPCR MasterMix (2x**), 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** | E0530 | E0534 | E0535 | E0540 |
|---|---|---|---|---|
| qMAXSen™ Green qPCR MasterMix (2x) | 2x1.25 ml | 4x1.25 ml | 16x1.25 ml | 4x12.5 ml |

## 4. Storage specifications

**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.

## 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), 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 | Cycle(s) |
|---|---|---|---|
| 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

**RUO** 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.

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