



**SPIN TUBES
PRIOR TO
OPENING**

MGB Alert[®] PCR Master Mix

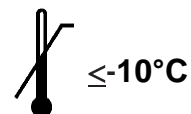


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For General Laboratory Use

REF M800331

REF M800547



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Intended Use

The MGB Alert PCR Master Mix is intended for use in the development of laboratory assays which target DNA analytes using real-time PCR. The MGB Alert PCR Master Mix itself generates no diagnostic information or data.

Product Description

1. The **MGB Alert PCR Master Mix** package includes ready to use 2x master mix containing a non-Taq thermostable enzyme lacking exonuclease activity and provided in antibody inactivated form. An initial high-temperature incubation step denatures the antibodies to activate the enzyme. The master mix also includes Uracil-DNA Glycosylase (UDG) and dUTP to prevent carry-over contamination. MGB Alert PCR Enhancer and MGB Alert 25 mM MgCl₂ are provided for additional flexibility in optimizing reaction conditions.

Materials Provided

The MGB Alert PCR Master Mix is available in two convenient sizes, sufficient for either 48 reactions or 480 reactions.

REF M800331 – MGB Alert PCR Master Mix (48)

| Component | Quantity | Cap Color |
|--|-------------|-----------|
| MGB Alert 2x PCR Master Mix | 1 x 1200 µL | Blue |
| MGB Alert 25 mM MgCl ₂ Solution | 1 x 350 µL | Black |
| MGB Alert PCR Enhancer | 1 x 1200 µL | White |

REF M800547 – MGB Alert PCR Master Mix (480)

| Component | Quantity | Label Color |
|--|-------------|-------------|
| MGB Alert 2x PCR Master Mix | 1 x 12.0 mL | Blue |
| MGB Alert 25 mM MgCl ₂ Solution | 1 x 3.5 mL | Black |
| MGB Alert PCR Enhancer | 1 x 12.0 mL | White |

Master Mix Preparation

To prepare the master mix, thaw the tubes containing the **MGB Alert 2x PCR Master Mix**, **MGB Alert 25 mM MgCl₂ Solution** and **MGB Alert PCR Enhancer**. Mix by inversion and centrifuge for 5 seconds.

1. Multiply the number of **50 µL** reactions required by the volume for each component in Table 1. Make a single tube of master mix for the run by pipetting the appropriate amount of each component listed in Table 1 into a sterile container.

Table 1

| Component | Volume per reaction (µL) |
|--|--------------------------|
| MGB Alert 2x PCR Master Mix | 25.0 |
| MGB Alert 25 mM MgCl ₂ Solution | 3.0 |
| MGB Alert PCR Enhancer | 9.5 |

- Mix by inversion and centrifuge for 5 seconds to remove solution off the sides of the container.
- Each **50 µL** reaction requires **37.5 µL** of the prepared master mix with the remaining volume to be filled with primer and probe mix, sample, and if necessary, PCR-Grade water.

Thermal Cycler Programming

To ensure optimal enzyme activation and performance, program thermal cycler as shown in Table 2. Times may need to be adjusted depending on specific thermal cycler being used.

Table 2

| Step | Time | Temp. (°C) |
|-----------------------|--------|------------|
| UDG Activation | 2 min. | 50 |
| PCR Enzyme Activation | 2 min. | 92 |

Storage and Shelf Life after First Opening

The MGB Alert 2x PCR Master Mix should not be frozen and thawed more than 8 times. Additional freezing/thawing cycles may cause a loss in amplification efficiency.

Open vials must be securely recapped prior to storage. All vials must be returned to the required storage condition of ≤ -10°C as soon as possible after the required volumes are removed for the assay.

Expiry Date

The reagent expiry date is printed on the tube labels.

Symbols



Catalog number



Upper temperature limit



Batch code



Use by



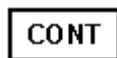
Contains sufficient materials for "N" tests



Consult instructions for use



Manufacturer



Contents

Legal Notices

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