



**SPIN TUBES  
PRIOR TO  
OPENING**

# MGB Alert<sup>®</sup> Platinum Master Mix



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**For General Laboratory Use**

**REF**

**M800693**



**≤-10°C**

## Intended Use

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

## Product Description

The **MGB Alert Platinum Master Mix** package includes an 8x master mix containing a Taq thermostable enzyme with exonuclease activity and provided in antibody inactivated form. An initial high-temperature incubation step denatures the antibodies to activate the enzyme. A terminal adenosine is added to the 3'-end of the amplicon.

The **MGB Alert Platinum Master Mix** is formulated to maximize flexibility and efficiency:

- 8x concentration allows for a highly dynamic reaction setup
- No UNG is included in the formulation
- No ROX reference dye is included in the formulation
- dATP, dCTP, dGTP, and dTTP are included in the formulation

## Materials Provided

The MGB Alert Platinum Master Mix M800693 product is provided at a 300 µL volume, sufficient for 48 tests of 50 µL each; overfill of the final dispensation is 20%. MGB Alert PCR Grade Water is provided for sample dilution and PCR solution preparation, as needed.

REF

### M800693 – MGB Alert Platinum Master Mix (48)

Component	Quantity	Cap Color
MGB Alert 8x PCR Master Mix	1 x 300 µL	Natural
MGB Alert PCR Grade Water	2 x 900 µL	White

## PCR Preparation

To prepare the PCR solution, thaw the tube containing the **MGB Alert Platinum Master Mix**. Mix by inversion and centrifuge for 5 seconds.

1. Each **50 µL** reaction requires **6.25 µL** MGB Alert Platinum Master Mix.
2. Bring the volume of each reaction to 50 µL with water, target-specific primers, probes, and DNA sample.

## Thermal Cycler Programming

To ensure optimal enzyme activation and performance, program the thermal cycler as shown in the table below. Times and/or temperatures may need to be adjusted depending on the specific thermal cycler being used.

Cycles	Step	Time	Temp. (°C)
1	PCR Enzyme Activation	4 min.	95
40	Denaturation	10 sec.	95
	Annealing	30 sec.	56
	Extension	15 sec.	73

## Storage and Shelf Life after First Opening









The MGB Alert 8x Platinum 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  $\leq -10^{\circ}\text{C}$  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
	Contents
	Batch code
	Upper storage temperature
	Date of manufacture
	Use by
	Manufacturer
	Consult instructions for use

## Legal Notices

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