



**SPIN TUBES
PRIOR TO
OPENING**

MGB Alert[®] Platinum Master Mix



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For General Laboratory Use

REF

M800694



≤-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 M800694 product is provided at a 3 mL volume, sufficient for 480 tests of 50 μ L each; overfill of the final dispensation is 14%. MGB Alert PCR Grade Water is supplied for sample dilution and PCR solution preparation, as needed.

REF

M800694 – MGB Alert Platinum Master Mix (480)

Component	Quantity	Cap Color
MGB Alert 8x PCR Master Mix	1 x 3 mL	Natural
MGB Alert PCR Grade Water	2 x 9 mL	Natural

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 μ L** reaction requires **6.25 μ L** MGB Alert Platinum Master Mix.
2. Bring the volume of each reaction to 50 μ L 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

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