

SPIN TUBES PRIOR TO OPENING

MGB Alert® One-Step Reverse Transcriptase PCR Master Mix



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For General Laboratory Use

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Intended Use

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

Product Description

The MGB Alert One-Step Reverse Transcriptase PCR Master Mix package includes a 2X master mix containing a thermostable polymerase with exonuclease activity and provided in hot-start format. Included are 100X reverse transcriptase, 50X RNase inhibitor, and RNase-free water in separate tubes.

The MGB Alert One-Step Reverse Transcriptase PCR Master Mix is formulated as:

- dATP, dCTP, dGTP, and dTTP are included in the formulation
- No UNG is included in the formulation
- No ROX reference dye is included in the formulation

Materials Provided

The MGB Alert One-Step Reverse Transcriptase PCR Master Mix product is provided in four tubes as shown in the table below. The kit contents' quantities are sufficient for 48 tests of 50 µL each.



M800689 – MGB Alert One-Step Reverse Transcriptase PCR Master Mix

Component	Quantity [overfill]	Cap Color	Component Ref
MGB Alert 2X RT-PCR Master Mix	1 × 1200 µL [23%]	Natural	M400660
MGB Alert 100X RT Enzyme Mix	1 × 30 µL [16%]	Black	M400661
MGB Alert 50X RNase Inhibitor	1 × 55 µL [14%]	Brown	M400755
MGB Alert RNase-Free Water	1 × 900 µL [0%]	White	M400662

PCR Preparation

To prepare the PCR reaction, thaw the tube containing the **MGB Alert RT-PCR Master Mix**. Mix by inversion and centrifuge for 5 seconds. It is recommended to keep the RT Enzyme Mix and RNase Inhibitor on ice during PCR setup. An example formulation is shown below, but other formulations may be used for specific purposes—contact Technical Service if assistance is required.

Reagent / Formulation	40 μL Monoreagent + 10 μL Sample (48 RXN)	
MGB Alert 2X RT-PCR Master Mix	25 µL	
MGB Alert 100X RT Enzyme Mix	0.5 µL	
MGB Alert 50X RNase Inhibitor	1.0 µL	
20X primers and probes	2.5 μL	
Water	11.0 µL	
Sample	10.0 μL	
Total Reaction Volume	50.0 μL	

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 probe and primer design and the specific thermal cycler being used.

Cycles	Step	Time	Temperature
1	Reverse Transcription	10-20 min	45 - 49°C
1	PCR Enzyme Activation	2 min	95°C
40-45	Denaturation	5-10 sec	95°C
	Annealing	30 sec	56°C
	Extension	30 sec	72°C

Storage and Shelf Life after First Opening

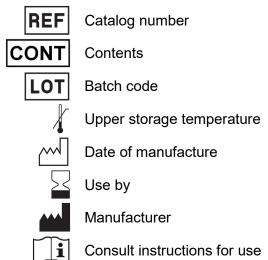
The MGB Alert RT-PCR Master Mix should be stored at ≤ -10°C. Repeated freeze/thaw cycles should be avoided as additional cycles may cause a loss in amplification efficiency.

Open vials must be securely recapped prior to storage. All vials must be returned to the required storage condition of $\leq -10^{\circ}$ 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



Legal Notices

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