

BlasTaq™ 2X qPCR MasterMix

Cat. No. G891, G893

Store at -20°C.

Product Description

BlasTaq™ 2X qPCR MasterMix provides a convenient, reliable and robust setup for performing quantitative real-time analysis of DNA samples. This ready-to-use qPCR MasterMix contains abm's strategically-engineered, next generation Taq Polymerase, BlasTaq™ DNA Polymerase, providing for rapid extension rates and robust performance. With specialized reaction conditions, this polymerase provides increased processivity, yields, and sensitivity, while shortening reaction times by up to 70%, compared to wild-type Taq DNA polymerase.

BlasTaq[™] has 5'-3' polymerase and 5'-3' exonuclease activities, lacks 3'-5' exonuclease activity, and produces 3'-dA-tailed amplicons. qPCR products made with BlasTaq[™] can be used with TA cloning vectors.

Cat. No.	Product Component	Quantity	Part No.	
G891	BlasTaq™ 2X qPCR MasterMix	500 rxn (4 x 1.25 ml)	G891-1	
	ROX Reference Dye	50 µl	P102	
G893	BlasTaq™ 2X qPCR MasterMix	5000rxn (50.0 ml)	G891-1	
	ROX Reference Dye	500µl	P102	

Protocol

The recommended amount of ROX Reference Dye to be added into the MasterMix may vary depending on the qPCR machine type:

- · No ROX equipment: Not needed.
- Low ROX equipment: 1 μl/1.25 ml or 22.5 μl/25 ml MasterMix.
- High ROX equipment: 11 µl/1.25 ml or 225 µl/25 ml MasterMix.
- 1. Mix individual components before use and assemble reaction on ice.

Component	Volume		
BlasTaq™ 2X qPCR MM ¹	10 μΙ		
Forward Primer (10 µM)	0.5 µl		
Reverse Primer (10 µM)	0.5 µl		
Template DNA	Variable (100 ng genomic DNA)		
Nuclease-free H ₂ O	υp to 20 μl		

¹The reaction buffer contains 1.5 mM Mg²⁺.

Gently mix the reaction components and briefly centrifuge. Use thermocycling conditions below.

Stan	Temperature	Duration		Cycle(a)	
Step		Standard	Fast	Cycle(s)	
Enzyme Activation	95°C	3 min	3 min	1	
Denaturation	95°C	15 sec	1 sec	40	
Annealing/Extension	60°C	1 min	10 sec		
Melting Curve	Refer to specific guidelines for instrument used				

General Notes

- Specialized buffer for higher yields, sensitivity, and specificity compared to wild-type Taq polymerase.
- Ideally start the qPCR as soon as the reaction mixture is prepared. If not possible, keep the reaction mixture on ice until starting the qPCR.
- Use the standard thermocycling condition with miRNA cDNA templates or any other appropriate applications.

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