



BlasTaq™ Probe 2X qPCR MasterMix

Cat. No. G890

Store at -20°C.

Product Description

BlasTaq™ Probe 2X qPCR MasterMix is designed for TaqMan probe-based real-time qPCR analysis of DNA samples. The components in the MasterMix (dNTPs, BlasTaq™ DNA polymerase, MgCl₂, and other proprietary buffer components) have been developed for **superb and sensitive performance in under one hour**. The MasterMix is suitable for SNP genotyping assays, gene expression analysis, microarray validation, and high throughput screening applications. ROX reference dye is provided separately, making it universally compatible with most qPCR instruments.

Product Component	Quantity	Part No.
BlasTaq™ Probe 2X qPCR MasterMix	500 rxn (4 x 1.25 ml)	G890-1
ROX Reference Dye	50 µl	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 MasterMix.
- High ROX equipment: 11 µl/1.25 ml MasterMix.

1. Thoroughly thaw and mix individual components before use, and assemble reaction on ice.

Component	Volume
BlasTaq™ Probe 2X qPCR MM	10 µl
Forward Primer	Variable (100 – 500 nM)
Reverse Primer	Variable (100 – 500 nM)
TaqMan Probe	Variable (100 – 300 nM)
Template DNA	Variable (≤10 ng/rxn)
Nuclease-free H ₂ O	up to 20 µl

2. Gently mix the reaction components and briefly centrifuge.
3. Thermocycling conditions for standard qPCR:

Step	Temperature	Duration		Cycle(s)
		Standard	Fast	
Enzyme Activation	95°C	3 min	20 sec	1
Denaturation	95°C	15 sec	1 sec	40
Annealing/Extension	60°C	1 min	10 sec	

General Notes

- MasterMix components are light sensitive; avoid exposure to light.
- Start qPCR as soon as the reaction mixture is prepared and always keep the reaction mixture chilled in on ice prior to loading on instrument.
- Use either the Standard or Fast qPCR program for your appropriate application.