



**Sepahan Plant Multiplication
Biotechnology Co.**

Taq 5X Master Mix

Cat. NO. SP110

Store at -20°C

1X *Taq* MasterMix contain :

10 mM Tris-HCl

50 mM KCl

1.5 mM MgCl₂

0.2 mM dNTPs

5 % Glycerol

0.08 % NP-40

0.05 % Tween-20

67 units/ml *Taq* Polymerase

pH 8.6 at 25°C

QUALITY CONTROL

Tested in the amplification of single-copy gene of *Medicago truncatula* genomic DNA.

Reaction setup

We recommend assembling all reaction components on ice and quickly transferring the reactions to a thermocycler preheated to the denaturation temperature (95°C).

Component	25 μ l Reaction	Final Concentration
10 μ M F Primer	0.5 μ l	0.2 μ M (0.05–1 μ M)
10 μ M R Primer	0.5 μ l	0.2 μ M (0.05–1 μ M)
Template DNA	variable	<1,000 ng
<i>Taq</i> 5X Master Mix	5 μ l	1X
Nuclease-free water	to 25 μ l	

PCR may perform in 25-30 cycles as follows:

Denature 93°C,45 seconds

Anneal 55°C,30seconds

Extend 72 °C,90seconds

General notes

1. *Taq* 5X Master Mix is stable for ten freeze-thaw cycles when stored at -20°C.

2. *Taq* 5X Master Mix is also stable for three months at 4°C, so for frequent use, an aliquot may be kept at 4°C.