

# Taq DNA Polymerase, recombinant

## PCR Additives

### *Taq Stabilizer*

5–10% Taq stabilizer in the PCR reaction is recommended to improve DNA amplification efficiency and specificity. It stabilizes Taq polymerase and reduces secondary DNA structure.

#### *Recommended 50 $\mu$ L PCR assay*

Component	Stock concentration	Final concentration	Amount
Buffer complete	10 $\times$	1 $\times$	5 $\mu$ L
<b>Taq stabilizer</b>	100%	5–10%	2.5–5 $\mu$ L
dNTP Mix	10 mM	200 $\mu$ M	1 $\mu$ L
Primer	10 $\mu$ M each	200–400 $\mu$ M	1–2 $\mu$ L
Template DNA		upto 50 ng	
Taq Polymerase	5 units/ $\mu$ L	0.025 units/ $\mu$ L	0.25 $\mu$ L (1.25u)
PCR grade water			fill upto 50 $\mu$ L

### *GC Enhancer*

10–20% GC enhancer in the PCR is recommended for amplifying GC-rich templates. It reduces the melting temperature of DNA. Thus, primer annealing temperature should be reduced by 1–2 $^{\circ}$ C.

#### *Recommended 50 $\mu$ L PCR assay*

Component	Stock concentration	Final concentration	Amount
Buffer complete	10 $\times$	1 $\times$	5 $\mu$ L
<b>GC enhancer</b>	100%	10–20%	5–10 $\mu$ L
dNTP Mix	10 mM	200 $\mu$ M	1 $\mu$ L
Primer	10 $\mu$ M each	200–400 $\mu$ M	1–2 $\mu$ L
Template DNA		upto 50 ng	
Taq Polymerase	5 units/ $\mu$ L	0.025 units/ $\mu$ L	0.25 $\mu$ L (1.25u)
PCR grade water			fill upto 50 $\mu$ L

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