



## Taq DNA Polymerase (Cat. T207025)

### Product Information:

**Contents:** 10x PCR buffer; Taq DNA Polymerase (6.25 units/μl)

**Catalog Number:** T207025

*Use for research only*

**Size:** 5000 U

Stored at -20°C

Recommend reaction Conditions:

20 mM Tris-HCl, 10 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 10 mM KCl, 2 mM MgSO<sub>4</sub>, 0.1 % Triton X-100, pH 8.8 @ 25°C

Unit definition:

One unit is defined as the amount of the enzyme able to catalyze the incorporation of 10 nmoles of dNTP into an acid-insoluble form in a 50ul reaction in 30 minutes at 65°C.

### Procedure:

1. **Preparation of PCR Master Mix**  
for a single reaction (total volume: 25uL) in a 0.2 or 0.5 mL microtube.

Component	Volume (μL)	Final Concentration
10x PCR Buffer	2.5	1x
10mM dNTP mix	0.5	200μM
MgCl <sub>2</sub>	X	(1.5mM-7mM)
DNA Template	2	determined by user
Forward primer (5μM)	1	200nM
Reverse primer (5μM)	1	200nM
Taq DNA Polymerase	0.2	0.05units/ μL
PCR grade water	up to 25 μL	

2. **Setup typical thermal cycling parameters**

Enzyme activation step:	95°C	3-5 minutes
25-40 cycles:		
Denaturation	95°C	30 seconds
Annealing	X°C	30 sec dependent on Tm of primers
Extension	72°C	1 minute (1min per kb amplicon)
Hold 4°C		

**Precautions and Disclaimer:** This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

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