

EcoTaq DNA Polymerase

500U, 2500U

Cat No: ET500, ET2500

Shipping : Ship with blue ice.
Storage : Store at -20°C. Avoid freeze and thaw cycles.

General Information

EcoTaq DNA Polymerase is designed for effective and fast amplification of templates up to 5 kb with high fidelity. It is a purified recombinant enzyme with 5'→3' DNA polymerase and 5'→3' exonuclease activity (no 3'→5' exonuclease activity). The elongation rate of the EcoTaq DNA Polymerase is 2 kb/min. The products are a mixture of blunt ends and single base (A) 3' overhang and can be used for direct T/A cloning.

EcoTaq DNA Polymerase is supplied together with 10x Reaction Buffer. 10×PCR Buffer contains 15 mM MgCl₂.

Applications

High throughput PCR.
Routine PCR with high reproducibility.
T/A Cloning
RT-PCR

PCR Setup

Component	Amount
EcoTaq DNA Polymerase, 5U/μl	0.25-0.5μL
10x Reaction Buffer	5 μl
Forward primer, 10 μM	2 μl
Reverse primer, 10 μM	2 μl
dNTP Mix, 10 mM each	1 μl
Template DNA	<0.5 μg
ddH ₂ O	up to 50 μl
Total	50 μl

Important Note: PCR reaction conditions might need optimization with additional MgCl₂ (not provided) depending on the primer binding properties.

PCR Reaction Condition

Temperature	Time	Cycles
94°C	2 min	
94°C	30 sec	
55-65°C	30 sec	30-35
72°C	30 sec/kb	
72°C	2 min	
4°C	∞	