Creative Enzymes®

# AceTaq DNA Polymerase

*Cat. No. COV-004*

*Lot. No.* (See product label)

## Introduction

***Description***

AceTaq DNA Polymerase is a chemically modified Taq DNA Polymerase that is completely blocked at room temperature and is released only after heating at 95°C. Non-specific amplification and primer dimerization can be prevented during sample preparation and reaction ramps. Compared with the antibody-based hot-start Taq, the polymerase activity of AceTaq is blocked more stringently and completely. It takes only 5 min to activate AceTaq. AceTaq is compatible with most existing PCR protocols. Combined with an optimized buffer system, AceTaq minimizes non-specific amplification and primer dimers, ensuring extremely high sensitivity and specificity, which makie it ideal for amplifying low-copy genes from complex templates. The 3'-end of the PCR products contain A, which can be directly cloned to a T-vector.

## Product Information

***Form***

Liquid, supplied with 10 × AceTaq Buffer (Mg2+ Plus) and dNTP Mix (10 mM each)

***Concentration***

5u/ul

***Unit Definition***

One unit (U) is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid-insoluble material in 30 min at 74 °C, using activated salmon sperm DNA as template/primer.

## Storage and Shipping Information

***Storage***

Store at -30°C ~ -15°C. Transport at -20°C ~ 0°C.