

## Champagne Taq DNA Polymerase

Cat. No. COV-005

Lot. No. (See product label)

### Introduction

#### Description

Champagne Taq DNA Polymerase is recombinant Taq DNA polymerase contained Champagne Taq antibody that blocks polymerase activity at ambient temperatures. Activity is restored after the denaturation step in PCR cycling at 95 °C, thereby providing an automatic “hot start” for Taq DNA polymerase in PCR, which provide increased sensitivity, specificity, and yield, while allowing assembly of reactions at room temperature. The use of this antibody helps reduce PCR optimization requirements, reaction set-up time and effort, handling of reaction components, and contamination risk. No modifications to PCR reactions or protocols are necessary. Champagne Taq DNA Polymerase has a 5'→3' DNA polymerase activity and a 5'→3' exonuclease activity, and lacks a 3'→5' proofreading function. The obtained PCR products can be directly used for cloning into T-Vectors as most PCR products amplified with Taq DNA polymerase have one A at the 3'-terminus.

### Product Information

#### Form

Liquid, supplied with 10 × Champagne Taq Buffer (Mg<sup>2+</sup> plus) and dNTP Mix (10 mM each)

#### Concentration

2.5u/ul or 5u/ul or 10u/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 minutes at 74 °C, using activated salmon sperm DNA as template.

### Storage and Shipping Information

#### Storage

Store at -20 °C