

T4 DNA Polymerase(5 U/ μ L)

Product Description

T4 DNA Polymerase catalyzes the synthesis of DNA in the 5'→3' direction and requires the presence of a template and a primer. This enzyme has a 3'→5' exonuclease activity, but it does not have a 5'→3' exonuclease function.

Specifications

Cat.No.	12901ES60 / 12901ES76 / 12901ES90 / 12901ES08
Size	100 U / 500 U / 2,000 U / 5,000 U
Source	<i>Bacteriophage T4</i>
Molecular Weight	103 kDa
Concentration	5 U/ μ L
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of deoxyribonucleotide triphosphates (dNTPs) into a polynucleotide within 30 minutes at 37°C

Components

Components No.	Name	12901ES60	12901ES76	12901ES90	12901ES08
12901-A	T4 DNA Polymerase(5 U/ μ L)	20 μ L	100 μ L	400 μ L	1 mL
12901-B	10 × Blue Buffer	100 μ L	250 μ L	500 μ L	1.25 mL

Storage

This product should be stored at -25~-15°C for 1 year.

Product Application

1. 3' overhang removal to form blunt ends.
2. 5' overhang fill-in to form blunt ends.
3. Second strand synthesis in site-directed mutagenesis.
4. Probe labeling using replacement synthesis.
5. Cloning of PCR products without reliance on ligation reactions.

Notes

1. This product is for research use only.
2. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety.