

Klenow Fragment (5 U/ μ L)

Product Description

Klenow Fragment is a proteolytic product of *E. coli* DNA Polymerase I, retaining the DNA polymerase activity and 3' $\rightarrow$ 5' exonuclease activity of DNA Polymerase I, but lacking the 5' $\rightarrow$ 3' exonuclease activity. It can be used for random priming DNA labeling and the synthesis of the second strand of cDNA.

Specifications

Cat.No.	14458ES70 / 14458ES80
Size	200 U / 1,000 U
Source	<i>E. coli</i>
Molecular Weight	68.2 kDa
Concentration	5 U/ μ L
Unit Definition	One unit is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 37°C

Components

Components No.	Name	14458ES70	14458ES80
14458-A	Klenow Fragment (5 U/ μ L)	40 μ L	200 μ L
14458-B	10 $\times$ Klenow Fragment Buffer	1.25 mL	1.25 mL

Storage

This product should be stored at -25~-15°C for 2 years.

Product Application

1. DNA sequencing by the Sanger dideoxy method.
2. Second strand cDNA synthesis.
3. DNA labeling using random primers.

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.