HB221017

DNA Polymerase I (20 U/μL)

Product Information

Product Name	Cat#	Size
DNA Polymerase I (20 U/μL)	14452ES03	1 mL
	14452ES10	10 mL
	14452ES50	50 mL

Product Description

DNA Polymerase I, in the presence of template and primer (DNA or RNA), uses dNTP as a substrate to synthesize DNA complementary to the template in the 5'→3' direction. The molecular weight of this enzyme is about 109,000 Da, and it has double-strand-specific 5'→3' exonuclease activity and single-strand-specific 3'→5' exonuclease activity. This enzyme can be used with DNase I (Cat#10607) for nick translation reaction and with RNase H (Cat#12906) to synthesize the second strand of cDNA.

Product Components

Component number	Component	Cat#/Size		
		14452ES03	14452ES10	14452ES50
14452-A	DNA Polymerase I (20 U/μL)	1 mL	10 mL	50 mL

Unit Definitions

1 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.

Applications

Labeling 3'-termini of nucleic acids
Nick translation of DNA
Second strand synthesis of cDNA

Shipping and Storage

The product is shipped with dry ice and can be stored at -20°C for two years.

Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. This product is for research use ONLY!