

Bst DNA Polymerase, Large Fragment

CATALOG NO.: M1213-200

AMOUNT: 1600 U (200 µl)

PRODUCT SOURCE: Recombinant *E. coli*

FORM: Liquid. Enzyme supplied with 10X Reaction Buffer

COMPONENTS:

Components Name	Volume	Part No.
Bst DNA Polymerase, Large Fragment (8 U/µl)	200 µl	M1213-200-1
2X Bst DNA Polymerase, Large Fragment Reaction Buffer	3 ml	M1213-200-2

DESCRIPTION:

Bst DNA Polymerase, Large Fragment is a DNA polymerase from *Bacillus stearothermophilus* that is modified so that it retains its 5'→3' DNA polymerase activity while lacking the intrinsic 5'→3' exonuclease domain. This polymerase also has strand displacement capabilities making it an ideal candidate for isothermal amplification.

APPLICATIONS:

1. Isothermal amplification
2. DNA sequencing of high GC DNA
3. Sequencing from very low amounts of template DNA
4. DNA strand displacement amplification

STORAGE CONDITIONS:

Store all components at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled properly.

ENZYME STORAGE BUFFER:

10 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, 50 mM KCl, 0.1% Triton® X-100 and 50% (v/v) Glycerol.

ENZYME UNIT DEFINITION:

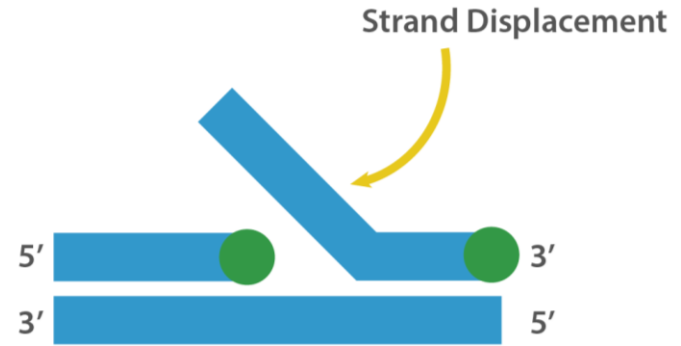
One unit is defined as the amount of Bst DNA Polymerase, Large Fragment that catalyzes the incorporation of 10 nmol of dNTP into acid insoluble material in 30 minutes at 65°C.

REACTION CONDITIONS:

Use 1X Bst DNA Polymerase, Large Fragment Reaction Buffer, supplemented with desired primers and dNTPs and incubate at 60-65°C for 1 hour. Temperatures above 70°C are not recommended.

HEAT INACTIVATION:

80°C for 20 minutes



RELATED PRODUCTS:

- Advance™ DNA Polymerase (Cat# M1151-250, -1000)
- Blood Advance™ DNA Polymerase (Cat# M1153-100, -400)
- Breeze™ DNA Polymerase (Cat# M1148-250, -1000)
- Distant™ DNA Polymerase (Cat# M1150-250, -1000)
- Fire Start™ DNA Polymerase (Cat# M1149-250, -1000)
- Outstretched™ DNA Polymerase (Cat# M1152-250, -1000)
- PFU DNA Polymerase (Cat# 9003-500, -2500)
- Ready™ DNA Polymerase (Cat# M1146-1000, -5000, -10000)
- Robust Ready™ DNA Polymerase (Cat# M1147-250, -1000)
- Taq DNA Polymerase (Cat# 9001-500, -2500)

FOR RESEARCH USE ONLY! Not to be used on humans.