

## Bsu DNA Polymerase, Large Fragment

**CATALOG NO.:** M1214-1500

**AMOUNT:** 1500 U (3 vials x 500 µl)

**PRODUCT SOURCE:** Recombinant *E. coli* carrying the large fragment of *Bacillus subtilis* DNA polymerase I gene

**FORM:** Liquid

**COMPONENTS:**

Components Name	Volume	Part No.
Bsu DNA Polymerase, Large Fragment	3 x 500 µl	M1214-1500-1
10X Reaction Buffer	3 x 100 µl	M1214-1500-2

**DESCRIPTION:** Bsu DNA Polymerase, Large Fragment is from *Bacillus subtilis* and is modified so that it retains its 5'→3' DNA polymerase activity with its 5'→3' exonuclease domain removed. This DNA Polymerase naturally lacks the 3'→5' exonuclease activity

**APPLICATIONS:**

1. Primer labeling
2. Second strand cDNA synthesis
3. DNA strand displacement synthesis
4. Single dA tailing
5. Recombinase polymerase 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.

**10X REACTION BUFFER:** 500 mM NaCl, 100 mM Tris-HCl, 100 mM MgCl<sub>2</sub>, 10 mM DTT pH 7.9 @ 25°C

**ENZYME 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.

**HEAT INACTIVATION:** 75°C for 20 min

**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.**