

PRODUCT INFORMATION

Bst DNA Polymerase (Large Fragment) (Glycerol-Free)

v. 230101

Catalog number C15035-1600U / C15035-8000U						
	Cat.		Name		Amount	
Package & Component		Bst DNA Polymerase (Large Fragment) (Glycerol-Free) (8 U/µL)		1,600 U		
	C15035-1600U C15035-8000U	10X Bst DNA Polymerase Reaction Buffer (Mg ²⁻ Free)		1 mL		
		100 mM MgSO ₄		1 mL		
			olymerase (Large Frag ree) (8 U/μL)	ment)	8,000 U	
		10X Bst DN Free)	NA Polymerase Reaction	on Buffer (Mg²+	3 × 1 mL	
		100 mM M	gSO ₄		3 × 1 mL	
Description	talyze 5´ → 3 NA Polymerase nal amplification and is compati	e offers strand n.				
Source	Escherichia coli					
Purity	>98% as determined by SDS-PAGE analysis.					
Unit Definition	One unit is defined as the amount of the enzyme incorporates 10 nmol of dNTP into acid-insoluble product in 30 minutes at 65°C.					
Storage	Stored at -20°C. Avoid repeated freeze/thaw cycles.					
	LAMP reaction recipe: 1. Place all required reagents on ice and add each of them following the order suggested below.					
Manuel	Compon	ent	Amount	Final conce	entration	

Component	Amount	Final concentration
10X Bst DNA Polymerase Reaction Buffer (Mg ²⁺ free)	2.5 µL	1X
100 mM MgSO₄	0.5-2.5 μL	2-10 mM



10 mM dNTP mix	3.5 µL	1.4 mM each	
10X FIP/BIP primers	1 µL	1.6 µM	
10X F3/B3 primers	1 µL	0.2 μΜ	
10X LoopF/B primers	1 µL	0.8 µM	
DNA template	XμL	10 copies or more	
Nuclease-Free H₂O	YμL	-	
Bst DNA Polymerase (Large Fraction) (Glycerol- Free) (8 U/μL)	1 μL	8 U/rxn	
Total reaction volume	25 μL	-	

- 2. Gently mix the reaction thoroughly to achieve uniform distribution.
- 3. Incubate at 65°C for 30-60 minutes.
- 4. MgSO $_4$ (2-10 mM), Bst DNA Polymerase (40-320 U/mL) and temperature (50-65 °C) can be adjusted for optimal results.
- 5. Reaction preparations may be scaled up or down proportionately.

Notes

It is not recommended to perform reaction above 70 $^{\circ}$ C. Bst DNA Polymerase cannot be used for thermal cycle sequencing.

For Research Use Only.