



## BioReady Pfu

BRPPFU002

1 x 250 Units (5 units/ $\mu$ l)  
2 x 10x Reaction Buffer with 20mM MgSO<sub>4</sub> (1ml)  
1 x 6x loading dye (500 $\mu$ l)

### Description

BioReady Pfu Taq is a thermostable DNA polymerase of approximately 92 kDa isolated from *pyrococcus furiosus*. This enzyme exhibits 3'  $\rightarrow$  5' exonuclease activity.

### Storage

-20°C

### Quality Control

1) 5'-3' exonuclease activity	Yes
2) Extra A addition	No
3) 3'-5' exonuclease activity	Yes
4) DNase free	Yes
5) RNase free	Yes
6) Protease free	Yes

### Reaction Mixture

10x Reaction Buffer	5 $\mu$ l
dNTP Mix (2.5 mM)	4 $\mu$ l
Forward primer (10 $\mu$ M)	0.5-5 $\mu$ l
Reverse primer (10 $\mu$ M)	0.5-5 $\mu$ l
BioReady Pfu	1.25 units
Template DNA	<100 ng
ddH <sub>2</sub> O	up to 50 $\mu$ l

### Thermal Cycler Protocol

95°C	1-2min	} 35 cycles
95°C	30s	
42-65°C	30s	
72-74°C	120s/kb	
72-74°C	5min	