



12816

## TAQ DNA Polymerase (5U/mcl) (w/6X Buffer)

Part E

### Specifications

Source/Origin	Thermus aquaticus
Appearance (Form)	Liquid
Appearance (Colour)	Colourless
Appearance (Clarity)	Clear
Concentration	5U/ $\mu$ l
Unit Definition	One unit is defined as the amount of enzyme that will incorporate 15 nmol of dNTP into acid insoluble material in 30 minutes at 75°C
Amplification capability	Up to 5kb DNA fragment
Absence of nucleases	Confirmed
DNA contamination	No Genomic or Plasmid DNA contamination

### Other Information

Description

Taq DNA Polymerase is a thermostable recombinant DNA polymerase derived from thermophilic bacterium *Thermus aquaticus*. Its molecular weight is 94 kDa. Taq DNA Polymerase can amplify DNA target up to 5 kb (simple template). The elongation velocity is 0.9~1.2kb/min (70~75°C). It has 5' to 3' polymerase activity but lacks of 3' to 5' exonuclease activity that result ion a 3'-dA overhangs PCR product.

#### Applications

PCR amplification of DNA fragments as long as 5 kb  
DNA labeling.  
DNA sequencing.  
PCR for cloning.

500 Units  
• TAQ Polymerase (5U/?l) - 100 ?l  
• 10X PCR Buffer (MgCl<sub>2</sub> plus) - 1.25ml  
• 6x Loading Buffer - 1.0ml

Includes

1000 Units  
• TAQ Polymerase (5U/?l) - 200 ?l  
• 10X PCR Buffer (MgCl<sub>2</sub> plus) - 1.25ml x 2  
• 6x Loading Buffer - 1.0ml

5000 Units  
• TAQ Polymerase (5U/?l) - 200 ?l x 5  
• 10X PCR Buffer (MgCl<sub>2</sub> plus) - 1.25ml x 10  
• 6x Loading Buffer - 1.0ml x 5

## General Information

Storage	-20 °C (Blue/Dry Ice)
Shelf Life	24 Months
IMDG Identification	Not Regulated for Transport (Non-Haz)
HSN Code	
1000 Units	38229090 (GST 12%)
500 Units	38229090 (GST 12%)
5000 Units	38229090 (GST 12%)

## Available Packages

500 Units

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1000 Units

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5000 Units

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### Disclaimer

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