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MORE THAN 20 YEARS IN BUSINESS Established 1997

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Fisher Biotec
Enzymes- Taq

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Fisher Biotec offers a comprehensive range of quality products at competitive prices. We specialise in the manufacture of leading-edge products for Molecular Biology, Genomics and Proteomics research.

Taq* DNA Polymerase

5'-3' Thermostable DNA Polymerase isolated from the extreme thermophilic bacteria Thermus thermophilus YT1. Taq DNA Polymerase is a thermostable enzyme which replicates DNA at 74ºC and remains functional after incubation at 95ºC. The ability of this enzyme to survive multiple rounds of temperature cycling is the basis of the PCR reaction and thermal cycle sequencing. It is supplied with 25mM $MgCl_2$ (1ml) and 10x PCR Reaction Buffer (1ml).

This enzyme can undergo several freeze/thaw cycles without loss of activity. This allows prior preparation of complete amplification mixtures (minus target DNA) that can be stored at -20º or -80º in single tubes under paraffin oil providing convenient and consistent reactions and assisting in minimising problems due to cross contamination.

Concentration: 5 units/µl
(One unit is the amount of enzyme that is required to incorporate 10 nmoles of dNTPs into acid-insoluble material at 70ºC in 30 minutes using 'activated' herring sperm DNA as substrate.)

10x Reaction Buffer: 670mM Tris-HCl (pH 8.8 at 25ºC), 166Mm $(NH_4)_2SO_4$, 4.5% Triton X-100, and 2mg/ml Gelatin.

Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, and primer extensions.

Catalog №	Pack Size
TAQ-1	250 units
TAQ-2	500 units (2 x 250 units)
TAQ-3	1000 units (4 x 250 units)
TAQ-3-1	1000 units (1x1000 units)
TAQ	Your specification

Taq* F1 DNA Polymerase

Taq* F1 DNA Polymerase is a highly purified recombinant thermostable DNA Polymerase that has been isolated from E.coli carrying a vector encoding the Thermus aquaticus DNA polymerase gene. The enzyme possesses a highly processive 5'-3' DNA polymerase activity with optimun activity achieved at 74ºC. The enzyme exhibits high thermal stability in withstanding prolonged incubations at elevated temperatures (95ºC). Taq* F1 DNA Polymerase lacks 3'-5' exonuclease activity. It is supplied with 25mM $MgCl_2$ (1ml) and 10x PCR Reaction Buffer (1ml).

This enzyme can undergo several freeze/thaw cycles without loss of activity. This allows prior preparation of complete amplification mixtures (minus target DNA) that can be stored at -20º or -80º in single tubes under paraffin oil providing convenient and consistent reactions and assisting in minimising problems due to cross contamination.

Concentration: 5 units/µl
(One unit is the amount of enzyme that is required to incorporate 10 nmoles of dNTPs into acid-insoluble material at 70ºC in 30 minutes using 'activated' herring sperm DNA as substrate.)

10x Reaction Buffer: 670mM Tris-HCl (pH 8.8 at 25ºC), 166Mm $(NH_4)_2SO_4$, 4.5% Triton X-100, and 2mg/ml Gelatin.

Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, and primer extensions.

Catalog №	Pack Size
TF1-1	250 units
TF1-2	500 units (2 x 250 units)
TF1-3	1000 units (4 x 250 units)
TF1-3-1	1000 units (1 x 1000 units)
TF1	Your specification

Enzymes - Taq

Continued

Taq* F2 DNA Polymerase

Taq* F2 DNA Polymerase is a highly purified recombinant thermostable DNA Polymerase that has been isolated from E.coli carrying a vector encoding the Thermus aquaticus DNA polymerase gene. The enzyme possesses a highly processive 5'-3' DNA polymerase activity with optimum activity achieved at 74ºC. The enzyme exhibits high thermal stability in withstanding prolonged incubations at elevated temperatures (95ºC). Taq* F2 DNA Polymerase lacks 3'-5' exonuclease activity. It is supplied with 25mM $MgCl_2$ (1ml) and 10x PCR Reaction Buffer (1ml).

This enzyme can undergo several freeze/thaw cycles without loss of activity. This allows prior preparation of complete amplification mixtures (minus target DNA) that can be stored at -20º or -80º in single tubes under paraffin oil providing convenient and consistent reactions and assisting in minimising problems due to cross contamination.

Concentration: 5 units/µl
(One unit is the amount of enzyme that is required to incorporate 10 nmoles of dNTPs into acid-insoluble material at 70ºC in 30 minutes using 'activated' herring sperm DNA as substrate.)

10x Reaction Buffer: 100mM Tris-HCl (pH 8.3 at 25ºC), and 500mM KCl.

Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, primer extensions, and microarray applications.

Catalog №	Pack Size
TF2-1	250 units
TF2-2	500 units (2 x 250 units)
TF2-3	1000 units (4 x 250 units)
TF2-3-1	1000 units (1 x 1000 units)
TF2	Your specification

TAQ-Ti Heat-Activated DNA Polymerase

TAQ-Ti is a highly purified recombinant thermostable DNA Polymerase that has been isolated from E.coli carrying a vector encoding the Thermus aquaticus DNA polymerase gene. The TAQ-Ti polymerase mix contains a substance which blocks polymerase activity prior to the on-set of thermal cycling. This prevents primer-dimers and other artifacts resulting from low-level synthesis from nonspecifically primed sites. The antibodies are quickly inactivated at the increased temperature of thermal cycling. TAQ-Ti polymerase requires no prolonged heating or denaturing step as do other hot start methods making TAQ-TI polymerase more convenient and easy-to-use. It is supplied with 10x Reaction Buffer and 25mM $MgCl_2$ solutions.

Concentration: 5 units/µl
(One unit is the amount of enzyme required to incorporate 10 nmols of dNTP s into acid-insoluble material at 72ºC in 30 minutes using 'activated' herring sperm DNA as substrate.)

10x Reaction Buffer: 200mM Tris-HCl pH 8.5 (at 25ºC), and 500mM KCl.

Applications: PCR-based DNA amplification, Cycle Sequencing, amplification of cloned inserts in vectors, primer extensions, and all applications requiring high specificity and hot-start PCR.

*Catalog №	Pack Size
TAQ-Ti-1	250 units
TAQ-Ti-2	500 units (2 x 250 units)
TAQ-Ti-3	1000 units (4 x 250 units)
TAQ-Ti-3-1	1000 units (1 x 1000 units)

*Please quote Catalog № when ordering

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