

Ферменты для ДНК-реагентов

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: hen@nt-rt.ru || сайт: <https://hongene.nt-rt.ru>



pfu DNA polymerase

Catalog No.: ON-051

Product description: pfu DNA Polymerase is a recombinant thermostable enzyme from *Pyrococcus furiosus*, expressed in *Escherichia coli*. It catalyzes the polymerization of nucleotides into duplex DNA in the 5'→3' direction and exhibits 3'→5' exonuclease activity in the presence of Mg^{2+} , can correct the wrong DNA amplification base. The error rates of pfu DNA Polymerase is the lowest, is just 1.3×10^{-6} . pfu DNA Polymerase is recommended for use in PCR and primer extension reactions that require high fidelity.

Source: Recombinant *E.coli*

Concentration and Size: 3U/μL

Unit Definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmoles of dNTPs into acid insoluble material in 30 minutes at 75°C.

Storage Buffer: 50mM Tris-HCl (pH8.2), 0.1mM EDTA, 1mM DTT, 0.1%(v/v) Tween-20, 0.1%(v/v) NP-40, 50%(v/v) glycerol.

Companion Product: 10X pfu Reaction Buffer, ON-068, 200mM Tris-HCl (pH8.8 at 25°C), 100mM KCl, 100mM $(NH_4)_2SO_4$, 20mM $MgSO_4$, 1% Triton X-100.



Uracil-DNA Glycosylase(UNG), *E.coli*

Catalog No.: ON-056

Product description: Uracil-DNA Glycosylase (UNG), *E.coli* is a recombinant protein in *E.coli*. The enzyme hydrolyzes uracil-glycosidic bonds at U-DNA in single- or double-strand DNA excising uracil and creating alkali sensitive abasic sites in the DNA. The enzyme is inactive on RNA and native, uracil-free DNA. Since Uracil-DNA Glycosylase (UNG), heat-labile has no metal ion requirements, it is fully active in the presence of EDTA.

Source: Recombinant *E.coli*

Concentration and Size: 1U/μL

Unit Definition: One unit is defined as the amount of enzyme required to catalyze the release of 1 nmol uracil from uracil-containing DNA in 1h at 37°C.

Storage Buffer: 20mM Tris-HCl (pH8.0), 0.1mM EDTA, 100mM KCl, 1mM DTT, 0.5%(v/v) Tween-20, 0.5%(v/v) NP-40, 50%(v/v) glycerol.



Taq DNA Ligase

Catalog No.: ON-308

Product description: Taq DNA ligase catalyzes the formation of a phosphodiester bond in duplex DNA containing adjacent 5'-phosphoryl and 3'-hydroxyl termini, using NAD⁺ as a cofactor.

Source: Recombinant *E.coli*

Concentration and Size: 40U/μL

Unit Definition: One unit is defined as the amount of enzyme required to give 50% ligation of the 12-base pair cohesive ends of 1μg of BstEII-digested λDNA in a total reaction volume of 50μL in 15minutes at 45°C.

Storage Buffer: 10mM Tris-HCl (pH 7.5, 25°C), 50mM KCl, 1mM DTT, 0.1mM EDTA, 0.1% Triton X-100 and 50% (v/v) Glycerol.

Companion Product: 10X Taq DNA Ligase Reaction Buffer, Cat#ON-072, 200mM Tris-HCl pH 7.6, 25°C, 250mM KAC, 100mM Mg(AC)₂, 10mM NAD⁺, 0.1% Triton X-100.



BspQI

Catalog No.: ON-124

Purity

>95% by SDS-PAGE

Storage

-20°C

Source

Recombinant *E.coli*



T4 DNA Ligase

Catalog No.: ON-157

Purity

>95% by SDS-PAGE

Storage

-20°C

Source

Recombinant E.coli



Taq DNA polymerase

Catalog No.: ON-007

Product description: Taq DNA Polymerase is a thermostable DNA polymerase that possesses a 5'→ 3' polymerase activity and 5'→ 3' exonuclease activity. The PCR product can be cloned directly into a T-vector (TA cloning) due to the addition of an adenosine(A) to the 3' end. The thermostable enzyme is a single polypeptide chain with a molecular weight of approximately 94kD.

Source: Recombinant E.coli

Concentration and Size: 5U/μL

Unit Definition: One unit is defined as the amount of enzyme that incorporates 10nmols of total dNTPs into acid-insoluble DNA in 30min at 74°C.

Storage Buffer: 20mM Tris-HCl (pH7.9, 25°C), 0.1mM EDTA, 100mM KCl, 0.5% Tween20, 0.5% NP40, 1mM DTT, 50%(v/v) Glycerol.

Companion Products: 10X Reaction Buffer, Cat#ON-012, 100mM Tris-HCl, 500mM KCl, pH9.0, 25°C; 100mM MgCl₂, Cat#ON-013.



Uracil-DNA Glycosylase (UNG), heat-labile

Catalog No.: ON-054

Purity

>95% by SDS-PAGE

Storage

-20°C

Source

Recombinant E.coli



BspQI (10U/ul)

Grade: GMP

Catalog No.: ON-124-G

Purity

>95% by SDS-PAGE

Storage

-20°C

Source

Recombinant E.coli

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