

Ферменты для синтеза РНК

Технические характеристики

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DNase I (RNase-free)

Catalog No.: ON-109

Product description: DNase I (RNase free) is an endonuclease that digests single- and double-stranded DNA. It nonspecifically cleaves DNA to release di-, tri- and oligonucleotide products with 5'-phosphorylated and 3'-hydroxylated end.

Source: Recombinant E.coli

Concentration and Size: 1U/ μ L

Unit Definition: One unit is defined as the amount of enzyme required to completely degrade 1 μ g of λ DNA in 10 minutes at 37°C.

Storage Buffer: 50mM Tris-HCl (pH7.5, 25°C), 10mM CaCl₂ and 50% Glycerol

Companion Product: 10X DNase I Reaction Buffer, Cat#ON-077; 100mM Tris-HCl pH7.6, 25°C, 25mM MgCl₂, 5mM CaCl₂.



Alkaline Phosphatase, TAB5

Catalog No.: ON-179

Product description: Alkaline Phosphatase, TAB5 nonspecifically catalyzes the dephosphorylation of 5' and 3' ends of DNA and RNA phosphomonoesters. It also hydrolyses NTPs and dNTPs. It is completely inactivated by heating at 80°C for 2 minutes.

Source: Recombinant E.coli

Concentration and Size: 2.5U/ μ L

Unit Definition: One unit is defined as the amount of enzyme that will

dephosphorylate 1µg of pUC19 vector DNA cut with a restriction enzyme generating 5' recessed ends in 30 minutes at 37°C. Dephosphorylation is defined as > 95% inhibition of recircularization in a self-ligation reaction and is measured by transformation into DH5α.

Storage Buffer: 10mM Tris-HCl , 1mM MgCl₂, 0.01mM ZnCl₂, 50%(v/v) glycerol, pH7.4, 25°C

10X Phosphatase Reaction Buffer: 500mM Bis-Tris-Propane-HCl , 10mM MgCl₂, 1mM ZnCl₂, pH6, 25°C

10X IVT Reaction Buffer without Mg²⁺ , Cat#ON-41, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine



RNase R

Catalog No.: ON-509-C020

Purity

20U/µL

Storage

-20°C

Source

Recombinant E.coli



T7 RNA polymerase

Catalog No.: ON-004

Source: Recombinant *E.coli*

Concentration and Size: 50U/µL

Unit Definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 1 nmol of rATP into acid-insoluble product in 1 hour at 37°C.

Storage Buffer: 20mM Tris-HCl PH 7.9, 100mM NaCl, 10mM DTT, 0.1% Triton X-100, 1mM EDTA, 50%(v/v) Glycerol.

Companion Product: 10X IVT Reaction Buffer, Cat#ON-62, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine, 60mM MgCl₂.

10X IVT Reaction Buffer without Mg²⁺ , Cat#ON-41, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine.



Poly(A) Polymerase

Catalog No.: ON-126

Purity

>95% by SDS-PAGE

Storage

-20°C

Source

Recombinant E.coli



T7 RNA polymerase (50U/ul)

Grade: GMP

Catalog No.: ON-004-G

Product description: T7 RNA Polymerase is a monomeric bacteriophage encoded DNA directed RNA polymerase which catalyzes the formation of RNA in the 5'-3' direction. In the process of initiation of transcription T7 recognizes a specific promoter sequence, the T7 promoter. T7 consists of 883 amino acids and has a molecular weight of 99kDa.

Source: Recombinant E.coli

Concentration and Size: 50U/μL

Unit Definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 1 nmol of rATP into acid-insoluble product in 1 hour at 37°C.

Storage Buffer: 20mM Tris-HCl PH 7.9, 100mM NaCl, 10mM DTT, 0.1% Triton X-100, 1mM EDTA, 50%(v/v) Glycerol.

Companion Product: 10X IVT Reaction Buffer, Cat#ON-62, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine, 60mM MgCl₂.
10X IVT Reaction Buffer without Mg²⁺, Cat#ON-41, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine.



T7 RNA polymerase (200U/ul)

Grade: GMP

Catalog No.: ON-004-C200-G

Product description: T7 RNA Polymerase is a monomeric bacteriophage encoded DNA directed RNA polymerase which catalyzes the formation of RNA in the 5'-3' direction. In the process of initiation of transcription T7 recognizes a specific promoter sequence, the T7 promoter. T7 consists of 883 amino acids and has a molecular weight of 99kDa.

Source: Recombinant E.coli

Concentration and Size: 200U/μL

Unit Definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 1 nmol of rATP into acid-insoluble product in 1 hour at 37°C.

Storage Buffer: 20mM Tris-HCl PH 7.9, 100mM NaCl, 10mM DTT, 0.1% Triton X-100, 1mM EDTA, 50%(v/v) Glycerol.

Companion Product: 10X IVT Reaction Buffer, Cat#ON-62, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine, 60mM MgCl₂.
10X IVT Reaction Buffer without Mg²⁺, Cat#ON-41, 400mM Tris PH7.9, 100mM DTT, 20mM Spermidine.



DNase I (RNase-free) (1U/ul)

Grade: GMP

Catalog No.: ON-109-G

Product description: DNase I (RNase free) is an endonuclease that digests single- and double-stranded DNA. It nonspecifically cleaves DNA to release di-,tri- and oligonucleotide products with 5'-phosphorylated and 3'-hydroxylated end.

Source: Recombinant E.coli

Concentration and Size: 1U/μL

Unit Definition: One unit is defined as the amount of enzyme required to completely degrade 1μg of λDNA in 10 minutes at 37°C.

Storage Buffer: 50mM Tris-HCl (pH7.5, 25°C), 10mM CaCl₂ and 50% Glycerol

Companion Product: 10X DNase I Reaction Buffer, Cat#ON-077; 100mM Tris-HCl pH7.6, 25°C, 25mM MgCl₂, 5mM CaCl₂.

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