

OmniTaq™ DNA Polymerase Enzyme and 2x Master Mix

NEW A full length polymerase capable of overcoming PCR inhibitors

DESCRIPTION

OmniTaq™ DNA Polymerase is a thermostable enzyme that overcomes PCR inhibitors where other enzymes fail. It is concentrated and is a highly specific and sensitive enzyme. It is robust which ensures more sensitive and reliable detection or quantization of the target input. The enzyme is a novel, genetically engineered version of Taq with very high resistance to PCR inhibitors such as heme in blood and humic acid in soil. The enzyme comes with 10X ammonium-based reaction buffer supplemented with 25 mM magnesium chloride, which provides optimal enzyme performance. OmniTaq™ DNA retains at least 85% activity after 1 hour at 95°C. See table for additional Stand Alone Enzyme specifications.

OmniTaq™ DNA Polymerase is also available as a ready-to-use 2x Master Mix. It contains inhibitor resistant OmniTaq™ DNA Polymerase, optimal reaction buffer, dNTPs and magnesium chloride. See table for additional 2x Master Mix specifications.

Omni KlenTaq™ DNA Polymerase Enzyme and 2x Master Mix

NEW A Klenow fragment polymerase capable of overcoming PCR inhibitors

DESCRIPTION

Omni KlenTaq™ DNA Polymerase is a very robust thermostable enzyme that overcomes PCR inhibitors where other enzymes fail. It is concentrated and is a highly specific, sensitive, and fast-DNA-elongating enzyme. It is robust which ensures more sensitive and reliable detection or quantization of the target input. The enzyme is a novel, genetically engineered version of KlenTaq (an N-terminally truncated form of Taq lacking the 5'→3' exonuclease activity) with extremely high resistance to PCR inhibitors such as heme in blood and humic acid in soil. Like OmniTaq™ DNA Polymerase, this enzyme provides great performance with crude clinical and forensic samples. The enzyme comes with 10X ammonium-based reaction buffer supplemented with 35mM magnesium chloride, which provides optimal enzyme performance. Omni KlenTaq™ DNA Polymerase retains at least 90% activity after 1 hour at 95°C. See table for additional Stand Alone Enzyme specifications.

Omni KlenTaq™ Master Mix is also available as a ready-to-use 2x Master Mix. It contains inhibitor resistant Omni KlenTaq™ DNA Polymerase, optimal reaction buffer, dNTPs and magnesium chloride. See table for additional 2x Master Mix specifications.

OmniTaq™ DNA Polymerase Enzyme	
Catalog No.	Quantity
1224-250	250 reactions (10 U/µl)
OmniTaq™ DNA Polymerase 2x Master Mix	
Catalog No.	Quantity
1226-250	250 reactions (5 x 1.25 ml/tube)
Omni KlenTaq™ DNA Polymerase Enzyme	
Catalog No.	Quantity
1225-250	250 reactions (25 U/µl)
Omni KlenTaq™ DNA Polymerase 2x Master Mix	
Catalog No.	Quantity
1227-250	250 reactions (5 x 1.25 ml/tube)

MO BIO Laboratories, Inc. is an authorized distributor of DNA Polymerase Technology, Inc. Omni mutant DNA Polymerases are patent pending. No license for OmniTaq™ or Omni KlenTaq™, to be used for Polymerase Chain Reaction, has been purchased by DNA Polymerase Technology, Inc.

Shipping and Storage Specifications

Format	Stand Alone Enzymes	2X Master Mixes
Shipping Conditions	Ambient	Ice Pack
Storage Conditions	-20°C for enzyme, 4°C for 10X Buffer	-20°C (optimal)
Shelf Life	1 year	-20°C (9 months) +4°C (3 months)

Enzymes

DNase (RNase-Free)

For selectively degrading DNA in the presence of RNA

Specifications	
Source	Bovine pancreas
Unit Definition	30 units per mg

DESCRIPTION

DNase is an endonuclease that nonspecifically cleaves DNA, producing a mixture of mono- and oligonucleotides. Our DNase (RNase-Free) is a lyophilized powder and is guaranteed to be free of RNase, and recommended for applications which require the maintenance of RNA integrity while removing DNA contamination. Useful for pretreating RNA preparations prior to reverse transcription reactions.

Proteinase K

For the purification of high molecular weight nucleic acids from tissues and cells

Specifications	
Source	Engyodontium album
Unit Definition	1500 Kunitz units/mg

DESCRIPTION

Proteinase K is a highly active and stable protease derived from the fungus *E. album* (formerly *T. album*) and is used in a wide variety of molecular biology applications. Our Proteinase K is provided as a powder or solution format, and is useful for general digestion of protein in biological samples when purifying high molecular weight nucleic acids and in revealing protein structure and function.

Ribonuclease A (RNase A)

For removing RNA from DNA preps and cleaving unhybridized areas from DNA:RNA hybrids

Specifications	
Source	Bovine pancreas
Unit Definition	2000 Kunitz units/ml

DESCRIPTION

RNase A specifically cleaves single-stranded RNA at 3' phosphate linkages of pyrimidine residues. Useful for removing contaminating RNA from DNA preparations.

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DNase (RNase-Free)	
Catalog No.	Quantity
15600-5	5 mg
Proteinase K	
Catalog No.	Quantity
1223-100	100 mg
1222-2	2 ml (20 mg/ml)
Ribonuclease A	
Catalog No.	Quantity
1202-1	1 ml (25 mg/ml)