

High Quality PCR Performance

MolTaq & Hot MolTaq

Highly Active Taq DNA Polymerases





Product Features

- ✓ Extremely active Taq polymerases
- ✓ PCR enhancer for amplification of difficult DNA templates
- ✓ Save pipetting and direct gel loading
- ✓ Batch to batch quality
- ✓ PCR and Real-Time PCR

MolTaq & Hot MolTaq: Highly Active Taq DNA Polymerases

Molzym's **MolTaq** and **Hot MolTaq** are highly active and robust, genetically engineered Taq polymerases suitable for a broad range of applications, including routine PCR, Real-Time PCR, multiplex PCR, nested PCR and many other issues.

MolTaq serves a variety of standard and specialized PCR applications, for instance, SNP analysis, incorporation of modified nucleotides at higher rates, introduction of new restriction sites or site-specific mutations, gene expression studies, food and water quality control and sequencing reactions.

Further, for adaptation of Mg^{2+} concentration special **MolTaq basic** and **Hot MolTaq basic** kits are available.

MolTaq & Hot MolTaq properties:

- 5'-3' polymerase activity for efficient amplification
- 5'-3' exonuclease activity (strand displacement)
- 3' terminal deoxynucleotidyl transferase activity (addition of single dATP to the duplex DNA)
- Incorporation of modified nucleotides at high rates
- Amplification of up to 9 kb from lambda DNA and up to 5 kb from genomic DNA

Each production lot is manufactured under strict quality control management ensuring high and consistent product quality.

Products

Kits are available to meet your needs for high performance PCR amplification.

MolTaq is the highly processive Taq DNA polymerase kit supplying PCR buffer (1.5 mM MgSO₄) and PCR enhancer for difficult, GC-rich templates.

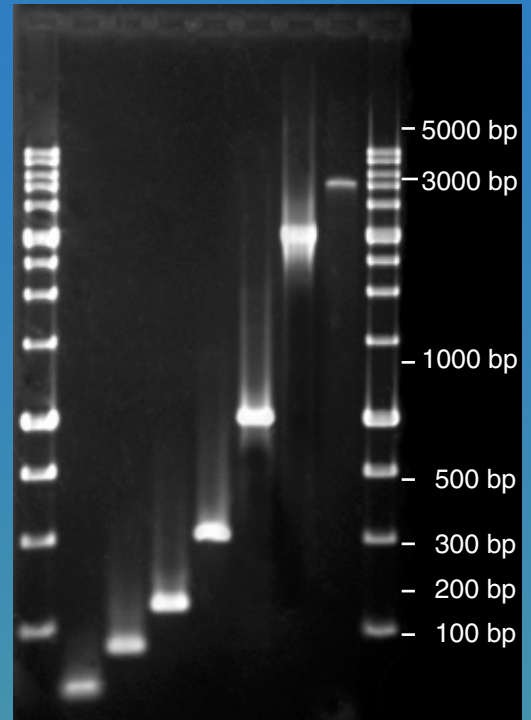
Hot MolTaq DNA Polymerase reduces unspecific amplification and allows the convenient PCR setup at ambient temperature.

MolTaq basic and **Hot MolTaq basic** enable optimisation of PCR amplification by variation of supplied concentrated magnesium (basic buffer and extra 100 mM MgCl₂ solution).

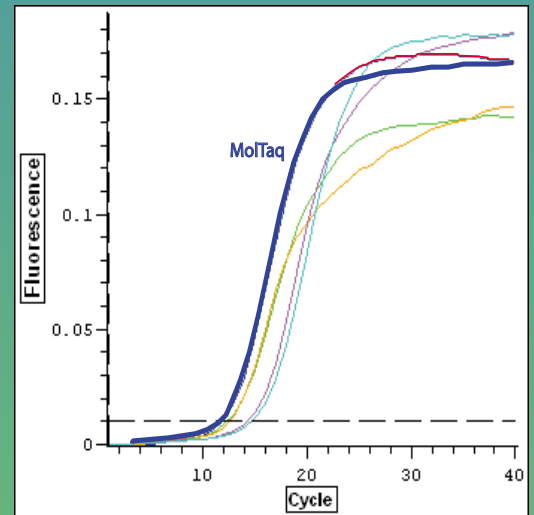
Control of accurate pipetting and direct gel loading for rapid analysis is possible using the red dye supplied with **MolTaq^{RED}** and **MolTaq^{RED} basic** kits.

Overview of MolTaq & Hot MolTaq products

Content	Mol-Taq	Mol-Taq basic	Mol-Taq	Mol-Taq basic	Hot Mol-Taq	Hot Mol-Taq basic
Taq DNA polymerase	+	+	+	+	-	-
Hot Start Taq DNA polymerase	-	-	-	-	+	+
PCR buffer (1.5 mM Mg ²⁺ final concentration)	+	-	+	-	+	-
Mg ²⁺ -free PCR buffer, 100 mM MgCl ₂ solution	-	+	-	+	-	+
PCR enhancer	+	+	+	+	+	+
Red dye	-	-	+	+	-	-



Gel electrophoretic analysis of amplicons of 100 to 5,000 bp fragment size generated with MolTaq Mastermix



Real-Time PCR showing high amplification activity of MolTaq compared to other suppliers of Taq DNA polymerases

Order Information:

Product	Content	Order No.
MolTaq Thermostable DNA Polymerase		
MolTaq Taq DNA polymerase, buffer (1.5 mM MgSO ₄ final), PCR enhancer	1000 Units	P-010-1000
	5000 Units	P-010-5000
MolTaq basic Taq DNA polymerase, magnesium-free buffer, 100 mM MgCl ₂ , PCR enhancer	1000 Units	P-016-1000
	5000 Units	P-016-5000
MolTaq^{RED} Taq DNA polymerase, buffer (1.5 mM MgSO ₄ final), PCR enhancer, red dye	1000 Units	P-040-1000
	5000 Units	P-040-1000
MolTaq^{RED} basic Taq DNA polymerase, magnesium-free buffer, 100 mM MgCl ₂ , PCR enhancer, red dye	1000 Units	P-017-1000
	5000 Units	P-017-5000
Hot MolTaq Hot Start Thermostable DNA Polymerase		
Hot MolTaq Hot Start Taq DNA polymerase, buffer (1.5 mM MgSO ₄ final), PCR enhancer	1000 Units	P-060-1000
	5000 Units	P-060-5000
Hot MolTaq basic Hot Start Taq DNA polymerase, magnesium-free buffer, 100 mM MgCl ₂ , PCR enhancer	1000 Units	P-065-1000
	5000 Units	P-065-5000

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