

## HotStart Taq

The Genaxxon HotStart Taq is a mixture of the normal Genaxxon Taq polymerase and a monoclonal antibody, which blocks polymerase activity prior to heating. The complex formed between the polymerase and the antibody prevents primer-dimer and other artifacts resulting from unspecific primer binding. The antibody is inactivated while heating up above 75 °C.

**M3006.0200** HotStart Taq 1 x 200 U **70.00 €**

**M3006.1000** HotStart Taq 1 x 1000 U **275.00 €**

## ReproHot Polymerase

ReproHot is a mixture of Taq polymerase plus a proof-reading polymerase and a monoclonal antibody, which blocks polymerase activity prior to heating. The complex prevents primer-dimer and other artifacts resulting from unspecific primer binding. The antibody is inactivated while heating up above 75 °C, requiring no prolonged first heating step prior to cycling. The combined hotstart and proof-reading feature leads to highly specific and correct amplicons.

**M3012.0250** ReproHot 1 x 250 U **109.50 €**

**M3012.1000** ReproHot 1 x 1000 U **349.75 €**

### Data Comparison between different DNA-Polymerases from Genaxxon

Product Name	Taq S	Taq E	DF-Taq	PCR Mastermix (2X)	RedTaq	PCR RedMaster (2X)	LongMax Kit
Cat #	M3001	M3043	M3185	M3014	M3305	M3029	M3000
5´ - 3´ polymerase	yes	yes	yes	yes	yes	yes	yes
5´ - 3´ exonuclease	yes	yes	yes	yes	yes	yes	yes
3´ - 5´ exonuclease	no	no	no	no	no	no	no
dNTPs incorporation (nucleotides/sec)	35-100	35-100	35-100	35-100	35-100	35-100	35-100
Error rate (x10 <sup>6</sup> )	3.3	3.8	3.8	3.3	3.8	3.8	3.8
Thermostability and remaining activity at 95 ° C	40 min >50%	40 min >50%	40 min >50%	40 min >50%	40 min >50%	40 min >50%	40 min >50%
Longest amplicons	> 7 kb	10 kb	10 kb	> 7 kb	8kb	8kb	> 12 kb
Addition of poly A	yes	yes	yes	yes	yes	yes	yes
Application	High specificity PCR	High efficiency PCR	High specificity PCR	High specificity PCR	High specificity PCR	High specificity PCR	High efficiency PCR

M3043 is a Taq-Polymerase optimally suited for colony screens/higher yields/ M3185 is a Taq-Polymerase that is tested for contaminants of 16S-DNA/ M3305 is a Taq-Polymerase that contains a red dye enabling a visualisation of the pipetting procedure/ M3029 contains a red dye. No loading buffer necessary./ M3000 contains a Taq-Polymerase and a special buffer system that enables PCR of very long fragments.

### Data Comparison between different DNA-Polymerases from Genaxxon

Product name	HotStart	SuperHot	HotStart Mastermix	Pfund's	Pwo	ReproFast	KOD/ReproHot
Cat #	M3006	M3307	M3007	M3004	M3002	M3003	M3012
5´ - 3´ polymerase	yes	yes	yes	yes	yes	yes	yes
5´ - 3´ exonuclease	yes	yes	yes	yes	yes	yes	yes
3´ - 5´ exonuclease	no	no	no	yes	yes	yes	yes
dNTPs incorporation(nucleotides/sec)	30-60	35-100	35-100	ca. 10	ca. 10	25-50	30-60
Error rate (x10 <sup>6</sup> )	-	4.0	4.0	0.55	0.6	0.65	0.65
Thermostability and remaining activity at 95 ° C	40 min >50%	60 min >70%	60 min >70%	90 min >70%	90 min >70%	60 min >70%	40 min >50%
Longest amplicons	10kb	8 kb	8 kb	5 kb	5 kb	> 7 kb	> 7 kb
Addition of poly A	yes	yes	yes	blunt end	blunt end	blunt end	blunt end
Application	Hot Start PCR	Hot Start PCR	High specificity PCR	High fidelity PCR	High fidelity PCR	High fidelity PCR	High fidelity PCR

M3006 is a HotStart-Polymerase with separate Antibody/ M3307 is a chemically modified HotStart Polymerase without Antibody  
 M3003 is a DNA-Polymerase for long fragments with very low error rate/ M3012 is a Proof-reading Polymerase with Antibody

## SuperHot Taq-Polymerase

A modified form of thermostable DNA polymerase, which is activated by heat treatment. A chemical moiety is attached to the enzyme at the active site, which renders the enzyme inactive at room temperature. Misprimed primers are not extended. Specificity and yield are increased compared to standard Taq-Polymerase. Difficult targets with high GC-content can be amplified. Sensitivity improves multiplex PCR. Applications that required two or more reactions can be performed in a single reaction tube.

M3307.0250 SuperHot Taq 1 x 250 U 90.00 €

M3307.1000 SuperHot Taq 1 x 1000 U 275.00 €

## Hotstart Mastermix (2X)

The Genaxxon 2X Hotstart Mastermix is a premixed, ready-to-use solution containing SuperHot Taq DNA Polymerase, dNTPs, MgCl<sub>2</sub> and reaction buffer for efficient amplification of DNA templates by PCR (one tube, one pipetting step). Optimized for use in routine and diagnostic PCR for amplifying DNA templates in the range of 0.2-4kb. The special formulation of our mastermix guarantees reproducible results even after repeated freezing/thawing steps leading to good yields and sensitivity. The kit is efficient, scalable from 25 µL to 50 µL and stable for 12 months.

M3007.0100 Hotstart Mastermix (2X) 69.50 €  
2.5 mL

M3007.0500 Hotstart Mastermix (2X) 312.70 €  
12.5 mL

# Hotstart Polymerases

Prices valid until 31.12.2010

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