

PCR Mastermix (2X)

Premixed, ready-to-use solution containing Taq DNA Polymerase, dNTPs, MgCl₂ and reaction buffers at optimal concentrations, optimized for use in routine PCR for efficient amplification of DNA templates in the range of 0.2-4kb. The special formulation guarantees reproducible results even after repeated freezing/thawing steps leading to good yields and sensitivity.

M3014.0100 2.5 mL 55.00 €
M3014.0500 12.5 mL 245.00 €

PCR RedMastermix (2X)

Additionally the premix contains an additive and a red-dye for proceeding with electrophoresis after PCR without adding loading buffer: Premixed, ready-to-use solution containing Taq DNA Polymerase, dNTPs, MgCl₂ and reaction buffers at optimal concentrations, optimized for use in routine PCR for efficient amplification of DNA templates in the range of 0.2-4kb.

M3029.0100 2.5 mL 62.50 €
M3029.0500 12.5 mL 295.50 €

ProbeMasterMix (2X) High ROX

Optimised for Real-Time PCR assays in Block systems and capillaries; ready-to-use containing optimized components to perform quantitative PCR: Hot-Start Polymerase, dNTPs (dUTP instead of dTTP), ROX (500nM) as internal standard, optimized reaction buffer with KCl and MgCl₂, stabilizers and enhancers. Enables even amplification of low copy number targets.

M3010.0100 2.5 mL 115.00 €
M3010.0500 12.5 mL 475.00 €

Product Name	Taq S	Taq E	DF-Taq	PCR Mastermix	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 (x 10 ⁻⁸)	3.3	3.8	3.8	3.3	3.8	3.8	3.8
Thermostability and remaining activity at 95 °C	40 min	40 min	40 min	40 min	40 min	40 min	40 min
Longest amplicons	>50%	>50%	>50%	>50%	>50%	>50%	>50%
Addition of poly A	> 7 kb	10 kb	10 kb	> 7 kb	8kb	8kb	> 12 kb
Application	yes	yes	yes	yes	yes	yes	yes
	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.

Product name	HotStart	SuperHot	HotStart Mastermix	Green/ Probe Mastermix (2X)	Pfunds	ReproFast	KOD/ ReproHot
Cat #	M3006	M3307	M3007	M3023/M3052 M3011/M3010	M3004	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	no	yes	yes	yes
dNTPs incorporation (nucleotides/sec)	30-60	35-100	35-100	35-100	ca. 10	25-50	30-60
Error rate (x 10 ⁻⁸)	-	4.0	4.0	4.0	0.55	0.65	0.65
Thermostability and remaining activity at 95 °C	40 min	60 min	60 min	60 min	90 min	60 min	40 min
Longest amplicons	>50%	>70%	>70%	>70%	>70%	>70%	>50%
Addition of poly A	10kb	8 kb	8 kb	8 kb	5 kb	> 7 kb	> 7 kb
Application	yes	yes	yes	yes	blunt end	blunt end	blunt end
	Hot Start PCR	Hot Start PCR	High specificity PCR	High specificity PCR	High fidelity PCR	High fidelity PCR	High fidelity PCR
					Long PCR	Long PCR	Hot Start 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
 M3023 is a Hotstart Mastermix with fluorescent dye/ M3052, M3011 and M3010 are Hotstart Mastermixes with fluorescent dye and ROX

Hotstart Mastermix (2X)

Premixed, ready-to-use solution containing SuperHot Taq DNA Polymerase, dNTPs, MgCl₂ and reaction buffer for efficient amplification of DNA templates by PCR. Optimized for use in routine and diagnostic PCR for amplifying DNA templates in the range of 0.2-4kb. The special formulation guarantees reproducible results even after repeated freezing/thawing steps leading to good yields and sensitivity.

M3007.0100	2.5 mL	69.50 €
M3007.0500	12.5 mL	312.70 €

GreenMasterMix (2X)

Ready-to-use PCR mixture containing all reagents required for qPCR (except template and primer). Optimized for high specificity and sensitivity because of an optimized Hotstart polymerase and the special formulation of our reaction buffer. The mix offers dUTP instead of dTTP. With EvaGreen as fluorescent dye, High ROX and Low ROX formulations contain ROX as passive reference dye.

GreenMasterMix (2X) High ROX

M3052.0100	2.5 mL	115.00 €
M3052.0500	12.5 mL	475.00 €

GreenMasterMix (2X) Low ROX

M3011.0100	2.5 mL	115.00 €
M3011.0500	12.5 mL	475.00 €

GreenMasterMix (2X) without ROX

M3023.0100	2.5 mL	115.00 €
M3023.0500	12.5 mL	475.00 €

PCR Mastermixes

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Solutions for molecular
and cell biology

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