Standard PCR and Hot Start PCR

Taq and TEMPase DNA Polymerases							
with 10x Ammonium Buffer, 10x Standard Buffer, 10x Combination Buffer and extra $MgCl_2$ (25 mM)							
	Taq 5 U/µl	Taq 1 U/µl	Taq RED 5 U/µl	Taq RED 1 U/µl	Taq 5 U/µl, Glycerol free	TEMPase 5 U/µl	TEMPase 5 U/µl Glycerol free
• 15 mM $MgCl_2$*	A116199	A056199	A206199	A066199	A106199	A226199	A246199
• Mg^{2+} free	A116299	A056299	A206299	A066299	A106299	A226299	A246299
• Detergent free	A116499	A056499	A206499	A066499	A106499	A226499	A246499
• Mg^{2+} free, deterg. free	A116599	A056599	A206599	A066599	A106599	A226599	A246599
Volume							
Size in units	50	50	50	50	50	50	50
of enzyme 5 U/µl	1 x 10 µl	1 x 50 µl	1 x 10 µl	1 x 50 µl	1 x 10 µl	1 x 10 µl	1 x 10 µl
of each buffer if included	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml
of $MgCl_2$ if included	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml	1 x 1.5 ml

*5x PCR Buffer RED is also included.

Taq DNA Polymerase and TEMPase Hot Start DNA Polymerase 5 U/µl	
With 10x Ammonium Buffer, 10x Standard Buffer, 10x Combination Buffer (15 mM $MgCl_2$) and 5x PCR Buffer RED (7.5 mM $MgCl_2$)	
• 15 mM $MgCl_2$	ATT6199

Standard PCR Master Mix

Taq OptiMix CLEAR An optimised Taq master mix with increased specificity			
Taq OptiMix CLEAR 2x Master Mix			
• 1.5 mM $MgCl_2$ final conc.	A370599		
Taq DNA Polymerase Master Mix Suitable for standard tests due to reduced setup time and increased reproducibility.			
Taq DNA Polymerase 2x Master Mix		Taq DNA Polymerase 1.1x Master Mix	
• 1.5 mM $MgCl_2$ final conc.	A140399	• 1.5 mM $MgCl_2$ final conc.	A120399
• 2 mM $MgCl_2$ final conc.	A150399	• 2 mM MgCl2 final conc.	A130399
Taq DNA Polymerase Master Mix RED - for direct loading With inert red dye and stabilisers to allow direct loading to agarose and SDS DNA gels.			
Taq DNA Polymerase 2x Master Mix RED		Taq DNA Polymerase 1.1x Master Mix RED	
• 1.5 mM $MgCl_2$ final conc.	A180399	• 1.5 mM $MgCl_2$ final conc.	A160399
• 2 mM $MgCl_2$ final conc.	A190399	• 2 mM $MgCl_2$ final conc.	A170399
Volume			
Reactions of 50 µl	Sample 20		
of 1.1x Master Mixes	1 x 0.9 ml		
of 2x Master Mixes	1 x 0.5 ml		

Hot Start PCR Master Mix and Master Mix BLUE

TEMPase Master Mix For reaction setup at room temperature, superior amplification and high specificity. Recommended for detection of low copy number targets.			
TEMPase DNA Polymerase 2x Master Mix A (based on Ammonium Buffer)		TEMPase DNA Polymerase 2x Master Mix C (based on Combination Buffer)	
• 1.5 mM $MgCl_2$ final conc.	A230399	• 1.5 mM $MgCl_2$ final conc.	A230799
TEMPase Master Mix BLUE - for direct loading With inert blue dye and stabilisers to allow direct loading to agarose and SDS DNA gels.			
TEMPase DNA Polymerase 2x Master Mix A BLUE		TEMPase DNA Polymerase 2x Master Mix C BLUE	
• 1.5 mM $MgCl_2$ final conc.	A290499	1.5 mM $MgCl_2$ final conc.	A290899
Volume			
Reactions of 50 µl	Sample 20		
of 2x Master Mixes	1 x 0.5 ml		

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GC-rich PCR

GC-rich DNA Target Kit: Optimized to successfully amplify difficult GC-rich DNA targets that regular master mixes cannot.	
TEMPase Hot Start DNA Polymerase with two special buffers and extra $MgCl_2$ (25 mM)	
4x GC Buffer I and 4x GC Buffer II	A227199
Volume	
Size in units	Sample 50
of enzyme 5 U/µl	1 x 10 µl
of each buffer	1 x 1.5 ml
of $MgCl_2$	1 x 1.5 ml

GC-rich PCR Master Mix

GC-rich TEMPase Master Mix Optimized to successfully amplify difficult GC-rich DNA targets that regular master mixes cannot.			
GC TEMPase 2x Master Mix I		GC TEMPase 2x Master Mix II	
• 1.5 mM $MgCl_2$ final conc.	A331799	• 1.5 mM $MgCl_2$ final conc.	A332799
Volume			
Reactions of 50 µl	Sample 20		
of 2x Master Mixes	1 x 0.5 ml		

High Fidelity PCR

AQ90 High Fidelity DNA Polymerase 2 U/µl High fidelity proofreading DNA Polymerase featuring robust amplification on AT-rich, GC-rich and long DNA targets. Recommended for cloning and mutagenesis.	
With 10x AQ90 Buffer and extra 25 mM $MgCl_2$ (25 mM)	
• 10x AQ90 Buffer	A456699*
Volume	
Size in units	Sample 40
of enzyme	1 x 20 µl
of buffer	1 x 1.5 ml
of $MgCl_2$	1 x 1.5 ml
of Betaine 5M	1 x 1 ml
AQ90 High Fidelity DNA Polymerase 2x Master Mix High fidelity proofreading DNA Polymerase featuring robust amplification on AT-rich, GC-rich and long DNA targets. Recommended for cloning and mutagenesis.	
AQ90 High Fidelity DNA Polymerase 2x Master Mix	
• 2 mM $MgCl_2$ final conc.	A470799*
Volume	
Reactions of 50 µl	Sample 20
of 2x Master Mix	1 x 50 µl
of Betaine 5M	1 x 1 ml

AccuPOL DNA Polymerase 2.5 U/µl High fidelity proofreading DNA polymerase, recommended for cloning, mutagenesis and when blunt ends are required.	
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)	
• 15 mM $MgCl_2$	A211199
• Mg^{2+} free	A211299
• Tween free	A211499
• Mg^{2+} free, Tween free	A211599
Volume	
Size in units	Sample 50
of enzyme	1 x 20 µl
of each buffer if included	1 x 1.5 ml
of $MgCl_2$ if included	1 x 1.5 ml

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Genotyping

Q-Extract DNA Extraction* The optimal solution for genotyping incl. easy DNA extraction.	
Q-Extract DNA Extraction PCR Kit with Taq DNA Polymerase 2x Master Mix RED	
• 1.5 mM $MgCl_2$ final conc.	A570099
Volume	
Reactions of 100 µl	20
Volume of Q-Extract Solution	1 x 2 ml
Volume of enzyme	1 x 0.25 ml

*Q-Extract DNA Extraction Solution is also available as a separate product. See page 4.

Multiplex PCR Master Mix

Multiplex TEMPase Master Mix For multiplex PCR reaction setup at room temperature, allowing to apply multiple primer sets within a single tube.	
Multiplex TEMPase 2x Master Mix with 1 x 1.5 ml $MgCl_2$	
• 3 mM $MgCl_2$ final conc.	A260399
Volume	
Reactions of 50 µl	Sample 20
of 2x Master Mixes	1 x 0.5 ml

Real-Time Master Mix

RealQ Plus 2x Master Mix Optimized all-in-one master mix for real-time PCR, well suited for quantitation, detection of gene expression, SNP analysis, pathogen detection and multiplex PCR (for probe).		
	Green	for Probe
• Without ROX	A323499	A313499
• Low ROX	A324499	A314499
• High ROX	A325499	A315499
Volume		
Reactions of 25 µl	Sample 40	
Volume of 2x Master Mix	1 x 0.5 ml	

RT-PCR

RealQ Virus One-step RT-PCR Kit For detection of viral, low-copy RNA templates	
With 5x PCR Mix, 20x RT Mix and ROX	A663399
Volume	
Reactions of 20 µl	50
Volume of 20x RT Mix	1 x 0.1 ml
Volume of enzyme	1 x 0.2 ml
Volume of ROX	1 x 0.05 ml

DNA Ladders

DNA Ladders Suitable for DNA quantitation	
High Range DNA Ladder, Low Range DNA Ladder and PCR DNA Ladder	A610199
Iqon Mini DNA Ladder, Iqon Low DNA Ladder and Iqon PCR Ladder	A610499
Volume	
Volume of ladders	3 x 0.05 ml

dNTP Mix

dNTP Mix Ultrapure dNTPs for superior results in PCR and other applications	
dNTP Mix 10 mM, 2.5 mM each	A503099
Volume	
Volume of dNTP Mix	1 x 1 ml

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PCR Clean-Up

PureIT ExoZAP One-step PCR clean-up	
PureIT ExoZAP PCR CleanUp	A620699
Volume	
Reactions of 2 µl	Sample 10
Volume of PureIT ExoZAP	1 x 0.02 ml

DNA/RNA Extraction

Q-Extract DNA Extraction Solution* Fast and easy DNA extraction.	
	A560099
Volume	
Reactions of 100 µl	20
Volume of Q-Extract Solution	1 x 2 ml

*Q-Extract DNA Extraction is also available as a kit including Taq DNA Polymerase 2x Master Mix RED. See page 3.

G2 DNA/RNA Enhancer Optimizing DNA and RNA extraction efficiency	
G2 DNA/RNA enhancer beads, freeze dried	
0.1 mm beads	A420199
1.4 mm beads	A421499
Volume	
Volume of G2	5 x 2 ml vials

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