Standard PCR

Taq DNA Polymerase 5 U/µl For routine PCR applications, which require high yield and reliable DNA amplification.					
Units	**500**	**1 000**	**2 500**	**5 000**	**10 000**
Without Buffer	A110003	A110004	A110006	A110007	A110008
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A111103	A111104	A111106	A111107	A111108
• Mg^{2+} free	A111203	A111204	A111206	A111207	A111208
• Tween free	A111403	A111404	A111406	A111407	A111408
• Mg^{2+} free, Tween free	A111503	A111504	A111506	A111507	A111508
With 10x Standard Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A112103	A112104	A112106	A112107	A112108
• Mg^{2+} free	A112203	A112204	A112206	A112207	A112208
• Tween free	A112403	A112404	A112406	A112407	A112408
• Mg^{2+} free, Tween free	A112503	A112504	A112506	A112507	A112508
With 10x Combination Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A113103	A113104	A113106	A113107	A113108
• Mg^{2+} free	A113203	A113204	A113206	A113207	A113208
• Tween free	A113403	A113404	A113406	A113407	A113408
• Mg^{2+} free, Tween free	A113503	A113504	A113506	A113507	A113508
With 5x PCR Buffer RED (7.5 mM $MgCl_2$)	A111803	A111804	A111806	A111807	A111808
With two buffers of choice and extra $MgCl_2$ (25 mM)					
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Standard Buffer (15 mM $MgCl_2$)	A114103	A114104	A114106	A114107	A114108
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Combination Buffer (15 mM $MgCl_2$)	A115103	A115104	A115106	A115107	A115108
Volume					
Enzyme	1 x 100 µl	2 x 100 µl	5 x 100 µl	10 x 100 µl	3 x 667 µl
Each 10x buffer if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml
Each 5x buffer if included	4 x 1.5 ml	7 x 1.5 ml	17 x 1.5 ml	10 x 5 ml	20 x 5 ml
$MgCl_2$ if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml

Taq DNA Polymerase RED 5 U/µl With inert red dye for convenient identification of the presence of enzyme and confirmation of complete mixing. For routine PCR applications, which require high yield and reliable DNA amplification.					
Units	**500**	**1 000**	**2 500**	**5 000**	**10 000**
Without Buffer	A200003	A200004	A200006	A200007	A200008
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A201103	A201104	A201106	A201107	A201108
• Mg^{2+} free	A201203	A201204	A201206	A201207	A201208
• Tween free	A201403	A201404	A201406	A201407	A201408
• Mg^{2+} free, Tween free	A201503	A201504	A201506	A201507	A201508
With 10x Standard Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A202103	A202104	A202106	A202107	A202108
• Mg^{2+} free	A202203	A202204	A202206	A202207	A202208
• Tween free	A202403	A202404	A202406	A202407	A202408
• Mg^{2+} free, Tween free	A202503	A202504	A202506	A202507	A202508
With 10x Combination Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A203103	A203104	A203106	A203107	A203108
• Mg^{2+} free	A203203	A203204	A203206	A203207	A203208
• Tween free	A203403	A203404	A203406	A203407	A203408
• Mg^{2+} free, Tween free	A203503	A203504	A203506	A203507	A203508
With two buffers of choice and extra $MgCl_2$ (25 mM)					
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Standard Buffer (15 mM $MgCl_2$)	A204103	A204104	A204106	A204107	A204108
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Combination Buffer (15 mM $MgCl_2$)	A205103	A205104	A205106	A205107	A205108
Volume					
Enzyme	1 x 100 µl	2 x 100 µl	5 x 100 µl	10 x 100 µl	3 x 667 µl
Each buffer if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml
$MgCl_2$ if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml

Hot Start PCR

TEMPase Hot Start DNA Polymerase 5 U/µl	For reaction set-up at room temperature, superior amplification and high specificity.				
Units	**500**	**1 000**	**2 500**	**5 000**	**10 000**
Without Buffer	A220003	A220004	A220006	A220007	A220008
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A221103	A221104	A221106	A221107	A221108
• Mg^{2+} free	A221203	A221204	A221206	A221207	A221208
• Tween free	A221403	A221404	A221406	A221407	A221408
• Mg^{2+} free, Tween free	A221503	A221504	A221506	A221507	A221508
With 10x Combination Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A223103	A223104	A223106	A223107	A223108
• Mg^{2+} free	A223203	A223204	A223206	A223207	A223208
• Tween free	A223403	A223404	A223406	A223407	A223408
• Mg^{2+} free, Tween free	A223503	A223504	A223506	A223507	A223508
With two buffers and extra $MgCl_2$ (25 mM)					
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Combination Buffer (15 mM $MgCl_2$)	A225103	A225104	A225106	A225107	A225108
With 5x PCR Buffer RED (7.5 mM $MgCl_2$)	A221803	A221804	A221806	A221807	A221808
Volume					
Enzyme	1 x 100 µl	2 x 100 µl	5 x 100 µl	10 x 100 µl	3 x 667 µl
Each 10x buffer if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml
Each 5x buffer if included	2 x 1.5 ml	4 x 1.5 ml	9 x 1.5 ml	5 x 5 ml	10 x 5 ml
$MgCl_2$ if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml

Glycerol Free Products

Taq DNA Polymerase Glycerol Free 5 U/µl	For automation and freeze-drying. For routine PCR applications, which require high yield and reliable DNA amplification.				
Units	**500**	**1 000**	**2 500**	**5 000**	**10 000**
Without Buffer	A100003	A100004	A100006	A100007	A100008
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A101103	A101104	A101106	A101107	A101108
• Mg^{2+} free	A101203	A101204	A101206	A101207	A101208
• Tween free	A101403	A101404	A101406	A101407	A101408
• Mg^{2+} free, Tween free	A101503	A101504	A101506	A101507	A101508
With 10x Standard Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A102103	A102104	A102106	A102107	A102108
• Mg^{2+} free	A102203	A102204	A102206	A102207	A102208
• Tween free	A102403	A102404	A102406	A102407	A102408
• Mg^{2+} free, Tween free	A102503	A102504	A102506	A102507	A102508
With 10x Combination Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A103103	A103104	A103106	A103107	A103108
• Mg^{2+} free	A103203	A103204	A103206	A103207	A103208
• Tween free	A103403	A103404	A103406	A103407	A103408
• Mg^{2+} free, Tween free	A103503	A103504	A103506	A103507	A103508
With two buffers of choice and extra $MgCl_2$ (25 mM)					
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Standard Buffer (15 mM $MgCl_2$)	A104103	A104104	A104106	A104107	A104108
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Combination Buffer (15 mM $MgCl_2$)	A105103	A105104	A105106	A105107	A105108

Taq DNA Polymerase Glycerol Free 50 U/µl	For automation and freeze-drying. For routine PCR applications, which require high yield and reliable DNA amplification.		
Units	**25 000**	**250 000**	**2 000 000**
Without Buffer	A490010	A490012	A490044
Volume			
Enzyme	1 x 0.5 ml	1 x 5 ml	8 x 5 ml

TEMPase Hot Start DNA Polymerase Glycerol Free 5 U/µl For automation and freeze-drying, for reaction setup at room temperature, superior amplification and high specificity.					
Units	**500**	**1 000**	**2 500**	**5 000**	**10 000**
Without Buffer	A240003	A240004	A240006	A240007	A240008
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A241103	A241104	A241106	A241107	A241108
• Mg^{2+} free	A241203	A241204	A241206	A241207	A241208
• Tween free	A241403	A241404	A241406	A241407	A241408
• Mg^{2+} free, Tween free	A241503	A241504	A241506	A241507	A241508
With 10x Combination Buffer and extra $MgCl_2$ (25 mM)					
• 15 mM $MgCl_2$	A243103	A243104	A243106	A243107	A243108
• Mg^{2+} free	A243203	A243204	A243206	A243207	A243208
• Tween free	A243403	A243404	A243406	A243407	A243408
• Mg^{2+} free, Tween free	A243503	A243504	A243506	A243507	A243508
With two buffers and extra $MgCl_2$ (25 mM)					
10x Ammonium Buffer (15 mM $MgCl_2$) + 10x Combination Buffer (15 mM $MgCl_2$)	A245103	A245104	A245106	A245107	A245108
Volume					
Enzyme	1 x 100 µl	2 x 100 µl	5 x 100 µl	10 x 100 µl	3 x 667 µl
Each buffer if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml
$MgCl_2$ if included	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml	3 x 5 ml	6 x 5 ml

Standard PCR Master Mix

Reactions (50 µl)	**100**	**500**	**2 500**	**5 000**	**10 000**
Taq OptiMix CLEAR 2x Master Mix An optimized Taq master mix with increased specificity					
• 1.5 mM $MgCl_2$ final conc.	A370501	A370503	A370506	A370507	-
Taq DNA Polymerase 2x Master Mix Suitable for standard tests due to reduced setup time and increased reproducibility.					
• 1.5 mM $MgCl_2$ final conc.	A140301	A140303	A140306	A140307	A140308
• 2 mM $MgCl_2$ final conc.	A150301	A150303	A150306	A150307	A150308
Taq DNA Polymerase 2x Master Mix RED - for direct loading With inert red dye and stabilizers to allow direct loading to agarose and SDS DNA gels.					
• 1.5 mM $MgCl_2$ final conc.	A180301	A180303	A180306	A180307	A180308
• 2 mM $MgCl_2$ final conc.	A190301	A190303	A190306	A190307	A190308
Volume					
2x master mixes	2 x 1.25 ml	10 x 1.25 ml	50 x 1.25 ml	25 x 5 ml	28 x 9 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.						
Reactions (50 µl)	**100**	**500**	**1 000**	**2 500**	**5 000**	**10 000**
TEMPase DNA Polymerase 2x Master Mix A (based on Ammonium Buffer)						
• 1.5 mM $MgCl_2$ final conc.	A230301	A230303	A230304	A230306	A230307	A230308
TEMPase DNA Polymerase 2x Master Mix C (based on Combination Buffer)						
• 1.5 mM $MgCl_2$ final conc.	A230701	A230703	A230704	A230706	A230707	A230708
TEMPase Master Mix BLUE - for direct loading With inert blue dye and stabilizers to allow direct loading to agarose and SDS DNA gels.						
TEMPase DNA Polymerase 2x Master Mix A BLUE						
• 1.5 mM $MgCl_2$ final conc.	A290401	A290403	A290404	A290406	A290407	A290408
TEMPase DNA Polymerase 2x Master Mix C BLUE						
• 1.5 mM $MgCl_2$ final conc.	A290801	A290803	A290804	A290806	A290807	A290808
Volume						
2x master mixes	2 x 1.25 ml	10 x 1.25 ml	20 x 1.25 ml	50 x 1.25 ml	25 x 5 ml	28 x 9 ml
$MgCl_2$ if included	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	3 x 1.5 ml	2 x 5 ml	4 x 5 ml

Multiplex PCR Master Mix

Multiplex TEMPase 2x Master Mix with extra $MgCl_2$ (25 mM) For multiplex PCR reaction setup at room temperature, allowing to apply multiple primer sets within a single tube.						
Reactions (50 µl)	**100**	**500**	**1 000**	**2 500**	**5 000**	**10 000**
• **3 mM $MgCl_2$ final conc.**	A260301	A260303	A260304	A260306	A260307	A260308
Volume						
2x master mixes	2 x 1.25 ml	10 x 1.25 ml	20 x 1.25 ml	50 x 1.25 ml	25 x 5 ml	28 x 9 ml
$MgCl_2$	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	3 x 1.5 ml	2 x 5 ml	4 x 5 ml

GC-rich PCR

GC-rich DNA Target Kit: TEMPase Hot Start DNA Polymerase with two special buffers and extra $MgCl_2$ (25 mM) Optimized to successfully amplify difficult GC-rich DNA targets that regular master mixes cannot.	
Units	**500**
4x GC Buffer I and 4x GC Buffer II	A227103
Volume	
Enzyme	1 x 100 µl
Each 10x buffer if included	1 x 1.5 ml
Each 5x buffer if included	2 x 1.5 ml
$MgCl_2$ if included	1 x 1.5 ml

GC-rich TEMPase Master Mix Optimized to successfully amplify difficult GC-rich DNA targets that regular master mixes cannot.						
Reactions (50 µl)	**100**	**500**	**1 000**	**2 500**	**5 000**	**10 000**
GC TEMPase 2x Master Mix I						
• 1.5 mM $MgCl_2$ final conc.	A331701	A331703	A331704	A331706	A331707	A331708
GC TEMPase 2x Master Mix II						
• 1.5 mM $MgCl_2$ final conc.	A332701	A332703	A332704	A332706	A332707	A332708
Volume						
2x master mixes	2 x 1.25 ml	10 x 1.25 ml	20 x 1.25 ml	50 x 1.25 ml	25 x 5 ml	28 x 9 ml
$MgCl_2$ if included	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	3 x 1.5 ml	2 x 5 ml	4 x 5 ml

High Fidelity PCR

AQ97 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.				
Units	**100**	**500**	**1 000**	**2 500**
With 5x AQ97 Buffer and extra $MgCl_2$ (25 mM)	A767501	A767503	A767504	A767506
Volume				
Enzyme	1 x 50 µl	1 x 250 µl	2 x 250 µl	5 x 250 µl
Buffer	2 x 1.5 ml	4 x 1.5 ml	8 x 1.5 ml	18 x 1.5 ml
$MgCl_2$	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml

AQ97 HiFi 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.				
Reactions (50 µl)	**100**	**500**	**2 500**	**5 000**
AQ97 HiFi 2x Master Mix	A770201	A770203	A770206	A770207
Volume				
2x master mix	2 x 1.25 ml	10 x 1.25 ml	50 x 1.25 ml	25 x 5 ml

AQ97 Hot Start High Fidelity DNA Polymerase 2 U/µl Ideal for cloning or amplification of difficult/long amplicons. Decreased run-time due to high-speed polymerase. Reaction setup can be performed at room temperature.				
Units	**100**	**500**	**1 000**	**2 500**
With 5x AQ97 Buffer and extra $MgCl_2$ (25 mM)	A787501	A787503	A787504	A787506
Volume				
Enzyme	1 x 50 µl	1 x 250 µl	2 x 250 µl	5 x 250 µl
Buffer	2 x 1.5 ml	4 x 1.5 ml	8 x 1.5 ml	18 x 1.5 ml
$MgCl_2$	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml

AQ97 HiFi Hot Start 2x Master Mix Ideal for cloning or amplification of difficult/long amplicons. Decreased run-time due to high-speed polymerase. Reaction setup can be performed at room temperature.				
Reactions (50 µl)	**100**	**500**	**2 500**	**5 000**
AQ97 HiFi Hot Start 2x Master Mix	A790901	A790903	A790906	A790907
Volume				
2x master mix	2 x 1.25 ml	10 x 1.25 ml	50 x 1.25 ml	25 x 5 ml

AQ97 HiFi Hot Start 2x Master Mix RED Ideal for cloning or amplification of difficult/long amplicons. Reaction setup can be performed at room temperature. With inert red dye and stabilizers to allow direct loading to agarose gels.				
Reactions (50 µl)	**100**	**500**	**2500**	**5000**
AQ97 HiFi Hot Start 2x Master Mix RED	A810801	A810803	A810806	A810807
Volume				
2x master mix	2 x 1.25 ml	10 x 1.25 ml	50 x 1.25 ml	25 x 5 ml

AccuPOL DNA Polymerase 2.5 U/µl High fidelity proofreading DNA polymerase, recommended for cloning, mutagenesis and when blunt ends are required.				
Units	**250**	**500**	**1 000**	**2 500**
Without Buffer	A210002	A210003	A210004	A210006
With 10x Ammonium Buffer and extra $MgCl_2$ (25 mM)				
• 15 mM $MgCl_2$	A211102	A211103	A211104	A211106
• Mg^{2+} free	A211202	A211203	A211204	A211206
• Tween free	A211402	A211403	A211404	A211406
• Mg^{2+} free, Tween free	A211502	A211503	A211504	A211506
Volume				
Enzyme	1 x 100 µl	1 x 200 µl	2 x 200 µl	5 x 200 µl
Each buffer if included	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml
$MgCl_2$ if included	1 x 1.5 ml	1 x 1.5 ml	2 x 1.5 ml	5 x 1.5 ml

Genotyping

Reactions (100 µl)	**100**	**500**
Q-Extract DNA Extraction PCR Kit* The optimal solution for genotyping incl. easy DNA extraction.		
• **With Taq DNA Polymerase 2x Master Mix RED**	A570001	A570004
Q-Extract DNA Extraction Hot Start PCR Kit* The optimal solution for genotyping incl. easy DNA extraction.		
• **With TEMPase Hot Start DNA Polymerase 2x Master Mix A BLUE**	A574401	A574404
Volume		
Q-Extract DNA Extraction Solution	1 x 10 ml	5 x 10 ml
Enzyme	1 x 1.25 ml	5 x 1.25 ml

*Q-Extract DNA Extraction Solution is also available as a separate product. See page 7.

Lyophilized PCR

Reactions (25 µl)	**500**	**1 000**	**2 500**
DryTech TEMPase 5x Master Mix Clear with 5x DryTech Buffer Clear Lyophilized TEMPase Master Mix for reaction setup at room temperature. Shipping at ambient temperature.			
2 mM $MgCl_2$ final conc.	A747203	A747204	A747206
DryTech TEMPase 5x Master Mix Green with 5x DryTech Buffer Green Lyophilized TEMPase Master Mix with green dye for direct loading. Shipping at ambient temperature.			
2 mM $MgCl_2$ final conc.	A747303	A747304	A747306
Volume			
5x master mixes	4 vials	8 vials	20 vials
5x buffer	2 x 1.3 ml	4 x 1.3 ml	10 x 1.3 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).		
Reactions (25 µl)	**400**	**4 000**

Green		
• Without ROX	A323402	A323406
• Low ROX	A324402	A324406
• High ROX	A325402	A325406

for Probe		
• Without ROX	A313402	A313406
• Low ROX	A314402	A314406
• High ROX	A315402	A315406
Volume		
2x Master Mix	4 x 1.25 ml	40 x 1.25 ml

RealQ Fast 2x Master Mix Ready-to-use Master Mix for real-time PCR. Recommended for sensitive detection and accurate quantitation. Fast and super-fast programs enable low run times.

Reactions (25 µl)	**500**	**1000**	**2500**	**5 000**
RealQ Fast 2x Master Mix, Green	A463403	A463404	A463411	A463412
Volume				
2x Master Mix	5 x 1.25 ml	10 x 1.25 ml	25 x 1.25 ml	50 x 1.25 ml

RT-PCR

One-step RT qPCR Kit Sensitive detection of low-copy RNA templates including virus RNA

Reactions (20 µl)	**100**	**200**	**2 000**
• **With 4x qPCR Mix, 20x RT Mix and ROX**	A833301	A833302	A833305
Volume			
20x RT Mix	1 x 0.1 ml	1 x 0.2 ml	10 x 0.2 ml
4x RT qPCR Mix	1 x 0.5 ml	1 x 1.0 ml	10 x 1.0 ml
ROX internal reference dye	1 x 0.05 ml	1 x 0.05 ml	2 x 0.05 ml

Nucleotides

dNTP Mix: dATP, dCTP, dGTP and dTTP equimolar mixed in one tube

100 mM (25 mM of each: dATP, dCTP, dGTP and dTTP)	A500004	A500007	-	-
40 mM (10 mM of each: dATP, dCTP, dGTP and dTTP)	A502004	A502007	-	-
10 mM (2,5 mM of each: dATP, dCTP, dGTP and dTTP)	-	-	A503004	A503005
Volume				
dNTP Mix	2 x 0.5 ml	8 x 0.5 ml	2 x 1 ml	5 x 1 ml

dNTP Set: One tube of each dATP, dCTP, dGTP and dTTP, 100 mM each

	A511104	A511107	A511109	A511120
Volume				
Each dNTP in the set	1 x 0.25 ml	4 x 0.25 ml	20 x 0.25 ml	2 x 1 ml
Total number of tubes	4	16	80	8

Single dNTPs: One tube of one specific dNTP

dATP, 100 mM	A521102
dCTP, 100 mM	A521202
dGTP, 100 mM	A521302
dTTP, 100 mM	A521402
Volume	
dNTP	1 x 0.25 ml

Buffers, Special Buffers, and $MgCl_2$

10x Ammonium Buffer

• 15 mM $MgCl_2$	A301103	A301110	A301156
• Mg^{2+} free	A301203	A301210	A301256
• Tween free	A301403	A301410	A301456

• Mg^{2+} free, Tween free	A301503	A301510	A301556
10x Standard Buffer			
• 15 mM $MgCl_2$	A302103	A302110	A302156
• Mg^{2+} free	A302203	A302210	A302256
• Tween free	A302403	A302410	A302456
• Mg^{2+} free, Tween free	A302503	A302510	A302556
10x Combination Buffer			
• 15 mM $MgCl_2$	A303103	A303110	A303156
• Mg^{2+} free	A303203	A303210	A303256
• Tween free	A303403	A303410	A303456
• Mg^{2+} free, Tween free	A303503	A303510	A303556
5x PCR Buffer RED	A301803	-	-
4x GC Buffer I	A301703	A301710	A301756
4x GC Buffer II	A302703	A302710	A302756
$MgCl_2$, 25 mM	A308103	A308110	A308156
Volume			
Buffers and $MgCl_2$	3 x 1.5 ml	10 x 1.5 ml	6 x 5 ml

Buffer Kits

Ammonium Buffer, Standard Buffer and Combination Buffer and extra $MgCl_2$ (25 mM)		
• 15 mM $MgCl_2$*	5 x 1.5 ml	A306101
• Mg^{2+} free	4 x 1.5 ml	A306201
• Tween free	4 x 1.5 ml	A306401
• Mg^{2+} free, Tween free	4 x 1.5 ml	A306501

* 5x PCR Buffer RED is also included.

Water

H_2O				
PCR Grade Water	A360056	-	A360042	A360044
Nuclease-Free Water for molecular biology	-	A340037	A340042	A340044
Volume				
H_2O	6 x 5 ml	1 x 100 ml	1 x 500 ml	1 x 1000 ml

PCR Accessories

Enhancers		
Betaine Enhancer Solution 5 M	5 x 1 ml	A351104
Additives		
ROX Internal Reference Dye, 200 µM	3 x 0.2 ml	A351513
Loading Buffers - for agarose and SDS gels		
Loading Buffer Red	5 x 1 ml	A608104
Loading Buffer Blue	5 x 1 ml	A608204
Loading Buffer Orange	5 x 1 ml	A608304
Loading Buffer Cyan	5 x 1 ml	A608404
DNA Ladders - suitable for DNA quantitation		
Iqon Mini DNA Ladder, 100 – 500 bp, 100 lanes	1 x 0.5 ml	A610441
Iqon Low DNA Ladder, 100 – 1000 bp, 100 lanes	1 x 0.5 ml	A610541
Iqon PCR Ladder, 100 – 3000 bp, 100 lanes	1 x 0.5 ml	A610641
High Range DNA Ladder, 200-12000 bp, 250 lanes	1 x 0.5 ml	A610141
Low Range DNA Ladder, 100-1000 bp, 250 lanes	1 x 0.5 ml	A610241
PCR DNA Ladder, 100-3000 bp, 250 lanes	1 x 0.5 ml	A610341

DNA/RNA extraction

Q-Extract DNA Extraction Solution*		
Reactions (100 µl)	**100**	**500**

Fast and easy DNA extraction.	A560001	A560004
Volume		
Q-Extract Extraction Solution	1 x 10 ml	5 x 10 ml

*Q-Extract DNA Extraction is also available as a kit including either Taq DNA Polymerase 2x Master Mix RED or TEMPase Hot Start DNA Polymerase 2x Master Mix A BLUE. See Genotyping page 5.

G2 DNA/RNA Enhancer For increased DNA and RNA extraction yield. Well suited for difficult matrices e.g. clay and wine				
Reactions	**10**	**25**	**50**	**100**
G2 Enhancer Solution				
• G2 DNA/RNA Enhancer Solution - Liquid	A420015	-	A420025	A420035
G2 Enhancer Beads				
• G2 DNA/RNA Enhancer beads 0.1 mm	A420110	A420125	A420150	A420100
• G2 DNA/RNA Enhancer beads 1.4 mm	A421410	A421425	A421450	A421400
Volume/format				
G2 DNA/RNA Enhancer Solution - Liquid	1 x 5 ml	-	5 x 5 ml	10 x 5 ml
G2 DNA/RNA Enhancer beads	10 x 2 ml vial	25 x 2 ml vial	50 x 2 ml vial	100 x 2 ml vial

PCR Clean-Up

PureIT ExoZAP PCR CleanUp				
Reactions (2 µl)	**100**	**500**	**2 500**	**5 000**
One-step PCR clean-up	A620601	A620603	A620606	A620607
Volume				
PureIT ExoZAP	1 x 0.2 ml	1 x 1 ml	5 x 1 ml	10 x 1 ml

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