

## Standard PCR

<b>Taq DNA Polymerase 5 U/μl</b> 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
<b>With 10x Ammonium Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A111103	A111104	A111106	A111107	A111108
• Mg <sup>2+</sup> free	A111203	A111204	A111206	A111207	A111208
<b>With 10x Standard Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A112103	A112104	A112106	A112107	A112108
• Mg <sup>2+</sup> free, Tween free	A112503	A112504	A112506	A112507	A112508
<b>With 10x Combination Buffer (15 mM MgCl<sub>2</sub>), extra MgCl<sub>2</sub> (25 mM)</b>	A113103	A113104	A113106	A113107	A113108
<b>With 5x PCR Buffer RED (7.5 mM MgCl<sub>2</sub>)</b>	A111803	A111804	A111806	A111807	A111808
<b>With 10x Ammonium Buffer (15 mM MgCl<sub>2</sub>), 10x Standard Buffer (15 mM MgCl<sub>2</sub>), and extra MgCl<sub>2</sub> (25 mM)</b>	A114103	A114104	A114106	A114107	A114108
<b>Volume</b>					
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 <sub>2</sub> 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
<b>Taq DNA Polymerase RED 5 U/μl</b> 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
<b>With 10x Ammonium Buffer (15 mM MgCl<sub>2</sub>), extra MgCl<sub>2</sub> (25 mM)</b>	A201103	A201104	A201106	A201107	A201108
<b>With 10x Standard Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A202103	A202104	A202106	A202107	A202108
• Mg <sup>2+</sup> free, Tween free	A202503	A202504	A202506	A202507	A202508
<b>With 10x Combination Buffer (15 mM MgCl<sub>2</sub>), extra MgCl<sub>2</sub> (25 mM)</b>	A203103	A203104	A203106	A203107	A203108
<b>Volume</b>					
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 <sub>2</sub> 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

<b>TEMPase Hot Start DNA Polymerase 5 U/μl</b> 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
<b>With 10x Ammonium Buffer (15 mM MgCl<sub>2</sub>), extra MgCl<sub>2</sub> (25 mM)</b>	A221103	A221104	A221106	A221107	A221108
<b>With 10x Combination Buffer (15 mM MgCl<sub>2</sub>), extra MgCl<sub>2</sub> (25 mM)</b>	A223103	A223104	A223106	A223107	A223108
<b>With 5x PCR Buffer RED (7.5 mM MgCl<sub>2</sub>), extra MgCl<sub>2</sub> (25 mM)</b>	A221803	A221804	A221806	A221807	A221808
<b>With 10x Ammonium Buffer (15 mM MgCl<sub>2</sub>), 10x Combination Buffer (15 mM MgCl<sub>2</sub>), and extra MgCl<sub>2</sub> (25 mM)</b>	A225103	A225104	A225106	A225107	A225108
<b>Volume</b>					
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 <sub>2</sub> 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**

<b>Taq DNA Polymerase Glycerol Free 5 U/μl</b> 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 (15 mM MgCl <sub>2</sub> ), extra MgCl <sub>2</sub> (25 mM)	A101103	A101104	A101106	A101107	A101108
<b>With 10x Standard Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A102103	A102104	A102106	A102107	A102108
• Tween free	A102403	A102404	A102406	A102407	A102408
<b>With 10x Combination Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A103103	A103104	A103106	A103107	A103108
• Tween free	A103403	A103404	A103406	A103407	A103408
• Mg <sup>2+</sup> free, Tween free	A103503	A103504	A103506	A103507	A103508
With 10x Ammonium Buffer (15 mM MgCl <sub>2</sub> ), 10x Standard Buffer (15 mM MgCl <sub>2</sub> ), and extra MgCl <sub>2</sub> (25 mM)	A104103	A104104	A104106	A104107	A104108

<b>Taq DNA Polymerase Glycerol Free 50 U/μl</b> 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
<b>Volume</b>			
Enzyme	1 x 0.5 ml	1 x 5 ml	8 x 5 ml

<b>TEMPase Hot Start DNA Polymerase Glycerol Free 5 U/μl</b> 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
<b>With 10x Ammonium Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A241103	A241104	A241106	A241107	A241108
• Mg <sup>2+</sup> free	A241203	A241204	A241206	A241207	A241208
• Tween free	A241403	A241404	A241406	A241407	A241408
• Mg <sup>2+</sup> free, Tween free	A241503	A241504	A241506	A241507	A241508
<b>With 10x Combination Buffer and extra MgCl<sub>2</sub> (25 mM)</b>					
• 15 mM MgCl <sub>2</sub>	A243103	A243104	A243106	A243107	A243108
• Mg <sup>2+</sup> free	A243203	A243204	A243206	A243207	A243208
• Tween free	A243403	A243404	A243406	A243407	A243408
• Mg <sup>2+</sup> free, Tween free	A243503	A243504	A243506	A243507	A243508
With 10x Ammonium Buffer (15 mM MgCl <sub>2</sub> ), 10x Combination Buffer (15 mM MgCl <sub>2</sub> ), and extra MgCl <sub>2</sub> (25 mM)	A245103	A245104	A245106	A245107	A245108
<b>Volume</b>					
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 <sub>2</sub> 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
<b>Taq OptiMix CLEAR 2x Master Mix</b> An optimized Taq master mix with increased specificity					
• 1.5 mM MgCl <sub>2</sub> final conc.	A370501	A370503	A370506	A370507	-
<b>Taq DNA Polymerase 2x Master Mix</b> Suitable for standard tests due to reduced setup time and increased reproducibility.					
• 1.5 mM MgCl <sub>2</sub> final conc.	A140301	A140303	A140306	A140307	A140308
• 2 mM MgCl <sub>2</sub> final conc.	A150301	A150303	A150306	A150307	A150308
<b>Taq DNA Polymerase 2x Master Mix RED</b> - for direct loading With inert red dye and stabilizers to allow direct loading to agarose and SDS DNA gels.					
• 1.5 mM MgCl <sub>2</sub> final conc.	A180301	A180303	A180306	A180307	A180308
• 2 mM MgCl <sub>2</sub> final conc.	A190301	A190303	A190306	A190307	A190308
<b>Volume</b>					
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

<b>TEMPase Master Mix</b> 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
<b>TEMPase DNA Polymerase 2x Master Mix A</b> (based on Ammonium Buffer)						
• 1.5 mM MgCl <sub>2</sub> final conc.	A230301	A230303	A230304	A230306	A230307	A230308
<b>TEMPase DNA Polymerase 2x Master Mix C</b> (based on Combination Buffer)						
• 1.5 mM MgCl <sub>2</sub> final conc.	A230701	A230703	A230704	A230706	A230707	A230708
<b>TEMPase Master Mix BLUE</b> - for direct loading With inert blue dye and stabilizers to allow direct loading to agarose and SDS DNA gels.						
<b>TEMPase DNA Polymerase 2x Master Mix A BLUE</b> (based on Ammonium Buffer)						
• 1.5 mM MgCl <sub>2</sub> final conc.	A290401	A290403	A290404	A290406	A290407	A290408
<b>TEMPase DNA Polymerase 2x Master Mix C BLUE</b> (based on Combination Buffer)						
• 1.5 mM MgCl <sub>2</sub> final conc.	A290801	A290803	A290804	A290806	A290807	A290808
<b>Volume</b>						
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 <sub>2</sub> 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

<b>Multiplex TEMPase 2x Master Mix</b> with extra MgCl <sub>2</sub> (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 <sub>2</sub> final conc.	A260301	A260303	A260304	A260306	A260307	A260308
<b>Volume</b>						
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 <sub>2</sub>	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

<b>GC-rich DNA Target Kit:</b> TEMPase Hot Start DNA Polymerase with two special buffers and extra MgCl <sub>2</sub> (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
<b>Volume</b>	
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 <sub>2</sub> if included	1 x 1.5 ml

<b>GC-rich TEMPase Master Mix</b> 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
<b>GC TEMPase 2x Master Mix I</b>						
• 1.5 mM MgCl <sub>2</sub> final conc.	A331701	A331703	A331704	A331706	A331707	A331708
<b>GC TEMPase 2x Master Mix II</b>						
• 1.5 mM MgCl <sub>2</sub> final conc.	A332701	A332703	A332704	A332706	A332707	A332708
<b>Volume</b>						
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 <sub>2</sub> 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 <sub>2</sub> (25 mM)	A767501	A767503	A767504	A767506
<b>Volume</b>				
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 <sub>2</sub>	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
<b>Volume</b>				
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 <sub>2</sub> (25 mM)	A787501	A787503	A787504	A787506
<b>Volume</b>				
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 <sub>2</sub>	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
<b>Volume</b>				
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
<b>Volume</b>				
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
<b>With 10x Ammonium Buffer and extra MgCl<sub>2</sub> (25 mM)</b>				
• 15 mM MgCl <sub>2</sub>	A211102	A211103	A211104	A211106
<b>Volume</b>				
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 <sub>2</sub> 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
<b>Q-Extract DNA Extraction PCR Kit*</b> The optimal solution for genotyping incl. easy DNA extraction.		
• With Taq DNA Polymerase 2x Master Mix RED	A570001	A570004
<b>Q-Extract DNA Extraction Hot Start PCR Kit*</b> The optimal solution for genotyping incl. easy DNA extraction.		
• With TEMPase Hot Start DNA Polymerase 2x Master Mix A BLUE	A574401	A574404
<b>Volume</b>		
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
<b>DryTech TEMPase 5x Master Mix Clear</b> with 5x DryTech Buffer Clear Lyophilized TEMPase Master Mix for reaction setup at room temperature. Shipping at ambient temperature.			
2 mM MgCl <sub>2</sub> final conc.	A747203	A747204	A747206
<b>DryTech TEMPase 5x Master Mix Green</b> with 5x DryTech Buffer Green Lyophilized TEMPase Master Mix with green dye for direct loading. Shipping at ambient temperature.			
2 mM MgCl <sub>2</sub> final conc.	A747303	A747304	A747306
<b>Volume</b>			
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

<b>RealQ Plus 2x Master Mix</b> 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	
<b>Green</b>				
• Without ROX	A323402		A323406	
• Low ROX	A324402		A324406	
• High ROX	A325402		A325406	
<b>for Probe</b>				
• Without ROX	A313402		A313406	
• Low ROX	A314402		A314406	
• High ROX	A315402		A315406	
<b>Volume</b>				
2x Master Mix	4 x 1.25 ml		40 x 1.25 ml	
<b>RealQ Fast 2x Master Mix</b> 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
<b>Volume</b>				
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

<b>One-step RT qPCR Kit</b> 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	
<b>Volume</b>				
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

<b>dNTP Mix:</b> 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
<b>Volume</b>				
dNTP Mix	2 x 0.5 ml	8 x 0.5 ml	2 x 1 ml	5 x 1 ml

  

<b>dNTP Set:</b> One tube of each dATP, dCTP, dGTP and dTTP, 100 mM each				
	A511104	A511107	A511109	A511120
<b>Volume</b>				
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

  

<b>Single dNTPs:</b> One tube of a specific dNTP				
dATP, 100 mM				A521102
dCTP, 100 mM				A521202
dGTP, 100 mM				A521302
dTTP, 100 mM				A521402
<b>Volume</b>				
dNTP				1 x 0.25 ml

## Buffers, Special Buffers, and MgCl<sub>2</sub>

<b>10x Ammonium Buffer</b>				
• 15 mM MgCl <sub>2</sub>	A301103	A301110	A301156	
• Mg <sup>2+</sup> free	A301203	A301210	A301256	
• Tween free	A301403	A301410	A301456	
• Mg <sup>2+</sup> free, Tween free	A301503	A301510	A301556	
<b>10x Standard Buffer</b>				
• 15 mM MgCl <sub>2</sub>	A302103	A302110	A302156	
• Mg <sup>2+</sup> free	A302203	A302210	A302256	
• Tween free	A302403	A302410	A302456	
• Mg <sup>2+</sup> free, Tween free	A302503	A302510	A302556	
<b>10x Combination Buffer</b>				
• 15 mM MgCl <sub>2</sub>	A303103	A303110	A303156	
• Mg <sup>2+</sup> free	A303203	A303210	A303256	
• Tween free	A303403	A303410	A303456	
• Mg <sup>2+</sup> free, Tween free	A303503	A303510	A303556	
<b>5x PCR Buffer RED</b>	A301803	-	-	
<b>4x GC Buffer I</b>	A301703	A301710	A301756	
<b>4x GC Buffer II</b>	A302703	A302710	A302756	
<b>MgCl<sub>2</sub>, 25 mM</b>	A308103	A308110	A308156	
<b>Volume</b>				
Buffers and MgCl <sub>2</sub>	3 x 1.5 ml	10 x 1.5 ml	6 x 5 ml	

## Buffer Kits

<b>Ammonium Buffer, Standard Buffer, Combination Buffer, PCR Buffer RED, and extra MgCl<sub>2</sub> (25 mM)</b>			
• 15 mM MgCl <sub>2</sub>		5 x 1.5 ml	A306101

## Water

<b>H<sub>2</sub>O</b>				
<b>PCR Grade Water</b>	A360056	-	A360042	A360044
<b>Nuclease-Free Water for molecular biology</b>	-	A340037	A340042	A340044
<b>Volume</b>				
H <sub>2</sub> O	6 x 5 ml	1 x 100 ml	1 x 500 ml	1 x 1000 ml

## PCR Accessories

<b>Enhancers</b>		
Betaine Enhancer Solution 5 M	5 x 1 ml	A351104
<b>Additives</b>		
ROX Internal Reference Dye, 200 µM	3 x 0.2 ml	A351513
<b>Loading Buffers</b> - 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
<b>DNA Ladders</b> - 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

<b>Q-Extract DNA Extraction Solution*</b>		
Reactions (100 µl)	<b>100</b>	<b>500</b>
Fast and easy DNA extraction.	A560001	A560004
<b>Volume</b>		
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.

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

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

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