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Thermo Scientific 1.1X PCR Master Mix (2.5mM MgCl₂)

Description:	The PCR Master Mix is a ready-to-use master mix. It is a convenient way of amplifying DNA fragments without the need to thaw individual components, reducing the risk of contamination and pipetting errors. The ThermoPrime <i>Taq</i> DNA Polymerase, dNTPs, reaction buffer and magnesium chloride are all present in the mix.		
Enzyme Source:	Thermus aquaticus		
Associated Activities:	ThermoPrime has 5' to 3' polymerization and exonuclease activity but lacks 3' to 5' exonuclease activity (proofreading).		
Kit Contents	V/:-1	Pack Size (cap color)	
	Vial	А	В
	PCR Master Mix	2 x 1.8ml (green)	20 x 1.8ml (green)
Master Mix:	Each vial contains 1.8ml of a 1.1X working concentration PCR Master Mix sufficient for 80 x 25μ l reactions. The final reaction 1X contains:		
	0.625 units TI	nermoPrime Taq DNA Po	olvmerase
		Fris-HCl (pH 8.8 at 25°C)	
		$(NH_4)_2SO_4$	
	2.5mM M	MgCl ₂	
	0.01% (v/v) Ty	ween [®] 20	
	0.2mM ea	ch of dATP, dCTP, dGT	P and dTTP
Storage Conditions:	Store the master mix at -20° C until ready for use for up to 1 year. Avoid freeze thawing. The vial can be stored at 4°C for up to 1 month. Shipped on ice within the UK and on dry ice for international and within the US.		



Example of **Protocol:**

Mix gently and spin down the master mix prior to use

	Volume	Final Concentration 1X
PCR Master Mix	22.5µl	1X
Primer forward (12.5µM each)	1µl*	0.5µM*
Primer reverse (12.5µM each)	1µl*	0.5µM*
Water (PCR Grade)	variable	
DNA Template	0.5µ1	0.5 - 125ng
Total volume	25µ1	

*Scale up or down the volume and concentration as appropriate

Example of program:

	Temp.	Time	Number of cycle
Initial Denaturation	94°C	2 min	1 cycle
Denaturation	94°C	20 sec	30 to 40
Annealing	50-65°C	30 sec	cycles
Extension**	72°C	60 sec	cycles
Final Extension	72°C	5 min	1 cycle

**Increase length of time in proportion to size of amplicon, Taq DNA Polymerase extends at approximately 1000 bp/min.

Ordering	AB-0619/A	PCR Master Mix	160 x 25µl rxns
Information:	AB-0619/B	PCR Master Mix	1,600 x 25µl rxns

For technical information or troubleshooting contact Thermo Scientific Genomics Tech Support:

Troubleshooting:	Email	Phone
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