

Thermo Scientific 2X PCR Master Mix w/ 1.5 mM 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 *Taq* DNA Polymerase, dNTPs, reaction buffer and

magnesium chloride are all present in the mix.

Enzyme Source: Thermus aquaticus

Kit Contents

Master Mix:

Associated ThermoPrime has 5' to 3' polymerization and exonuclease activity but

Activities: lacks 3' to 5' exonuclease activity (proofreading).

Vial

PCR Master Mix 2 x 1 ml (red) 20 x 1 ml (red)

Each vial contains 1.0 ml of a 2X working concentration PCR Master Mix sufficient for 80 x 25 μl reactions. The final reaction 1X

Pack Size (cap color)

contains:

0.625 units ThermoPrime *Taq* DNA Polymerase

75mM Tris-HCl (pH 8.8 at 25°C)

 $\begin{array}{lll} 20 mM & (NH_4)_2 SO_4 \\ 1.5 mM & MgCl_2 \\ 0.01\% \ (v/v) & Tween^{\circledast} \ 20 \end{array}$

0.2mM each of dATP, dCTP, dGTP and dTTP

Storage Store the master mix at -20°C until ready for use for up to 1 year. Conditions: 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 internationally 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	12.5 µl	1X
Primer forward (10µM each)	1.25 µl*	0.5 μM*
Primer reverse (10µM each)	1.25 µl*	0.5 μM*
Water (PCR Grade)	Variable	
DNA Template	$0.5 - 10 \mu l$	0.5 – 125 ng
Total volume	25 µl	

^{*}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	20 to 40
Annealing	50-65°C	30 sec	30 to 40 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, $\it Taq$ DNA Polymerase extends at approximately 1000 bp/min.

Ordering Information:

AB-0575/DC/A	PCR Master Mix	160 x 25µl rxns
AB-0575/DC/B	PCR Master Mix	1,600 x 25µl rxns

Troubleshooting

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

	United States	Rest of World
Email	abgeneus.techservice@thermofisher.com	abgene.techsupport@thermofisher.com
Phone	+1 (800) 235-9880	+44 (0)1372 840410

Use of this product is covered by US Patent No. 6,127,155. The purchase of this product includes a limited, non-transferable immunity from suit under the foregoing patent claims for using only this amount of product for the purchaser's own internal research. No right under any other patent claim, no right to perform any patented method and no right to perform commercial services of any kind, including without limitation reporting the results of purchaser's activities for a fee or other commercial consideration, is conveyed expressly, by implication, or by estoppel. This product is for research use only. Diagnostic uses under Roche patents require a separate license from Roche. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California

Revised April, 2011. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.

Literature Code: AB-0575/DC-v2-0411