A&A BIOTECHNOLOGY
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Manual

PCR Mix Plus Clear

High specificity ready-to-use mix for PCR, containing Taq DNA polymerase, stabilizers and PCR anti-inhibitors. The mix does not contain dye.

catalog #	size
2005-100C	200 reactions in 25 µl
2005-1000C	2000 reactions in 25 µl

For research use only.

Guarantee

A&A Biotechnology provides guarantee on this product.
The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

Description

PCR Mix Plus Clear is optimized ready to use high specificity mixture containing Taq DNA polymerase, PCR buffer, $MgCl_2$, dNTPs, stabilizers and PCR anti-inhibitors at optimal concentration. PCR Mix Plus Clear does not contain dye.

Contents

	2005-100C		2005-1000C		
	quantity	**cat #**	**quantity**	**cat #**	**storage**
2x PCR Mix Plus Clear	2 x 1.25 ml	K-2005C-125A	20 x 1.25 ml	K-2005C-125A	-20 °C
ultrapure water	2 x 1.5 ml	K-WUP-15A	20 x 1.5 ml	K-WUP-15A	-20 °C

Notes

- Before use, it is necessary to completely thaw and thoroughly mix the kit components by gently inverting the tube.
- Up to 7x repeated freeze-thaw cycles do not influence the activity of this product.

Example PCR protocol

1. Thaw all components of the kit on ice, gently mix by inverting the tubes and briefly centrifuge. Place the tubes on ice again.

2. Place PCR tubes on ice or a cold block and add:

	volume	final concentration
component	**25 µl**	
2x PCR Mix Plus Clear	12.5 µl	1X
primer 1 (10 µM)*	0.5 µl	0.2 µM
primer 2 (10 µM)*	0.5 µl	0.2 µM
DNA template	1-5 µl	< 250 ng/reakcja
ultrapure water	up to 25 µl	

*For optimization, a primer titration should be performed from 0,2 µM do 1 µM final concentration.

3. Gently mix the samples and briefly centrifuge.

4. Place the tubes in the thermocycler and start the PCR programme.
An example amplification profile for products up to 500 bp:

reaction step	temperature	time
initial denaturation	95 °C	2-3 min
25-45 cycles	95 °C 50-68 °C* 72 °C	15-30 s 30-60 s 15-60 s

*Annealing temperature depends on primer sequence and the composition of the reaction mixture.

5. Load the post-PCR samples directly on an agarose gel for electrophoresis.

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