

Manual

PCR Mix Plus Green

High specificity ready-to-use mix for PCR. Contains *Taq* DNA polymerase, PCR anti-inhibitors and dyes facilitating easy tracking of electrophoresis. 2x concentrated.

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

Advantages

- dyes to help track the progress of electrophoresis.

Description

PCR Mix Plus Green is optimized ready to use high specificity PCR mixture containing *Taq* DNA polymerase, PCR buffer, MgCl₂, dNTPs and stabilizers at optimal concentration.

Mix also contains blue and yellow dyes and a loading buffer. These additives enable direct loading of PCR products on agarose gel upon completing the PCR.

When running 2% agarose gel separation, the blue dye migrates as DNA fragments of 1 kb while the yellow dye represents the front of the separation.

Contents

	2005-100Z	2005-1000Z	storage
PCR Mix Plus Green	2 x 1.25 ml	20 x 1.25 ml	-20 °C
ultrapure water	2 x 1.5 ml	20 x 1.5 ml	-20 °C

PCR Mix Plus Green composition

component	amount
<i>Taq</i> DNA polymerase	0.1 U/μl
MgCl ₂	4 mM
dNTPs	0.5 mM of each dNTP
stabilizers: blue and yellow dyes and loading buffer	

Notes

- Before use all solutions should be thawed thoroughly on ice, gently mixed by inverting the tube and briefly centrifuged.
- 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 and add:

component	PCR reaction volume	
	25 μ l	50 μ l
PCR Mix Plus Green	12.5 μ l	25 μ l
primer 1	0.1-1 μ M	0.1-1 μ M
primer 2	0.1-1 μ M	0.1-1 μ M
DNA template	10 pg-1 μ g	10 pg-1 μ g
ultrapure water	up to 25 μ l	up to 50 μ l

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:

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

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



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