

Manual

PCR Mix Plus Green

High specificity ready-to-use mix for PCR. Contains PCR antiinhibitor, Taq polymerase 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 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
Sterile water	2 x 1.5 ml	20 x 1.5 ml	-20 °C

PCR Mix Plus Green composition

component	amount	
Taq DNA polymerase	0.1 U/μΙ	
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 on the activity of this product.

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Example PCR protocol

- 1. Thaw the PCR Mix Plus Green and sterile water 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:

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P(K	reaction	Volume

component	25 μΙ	50 μΙ
PCR Mix Plus Green	12.5 μΙ	25 μΙ
Starter 1	0.1 - 1 μΜ	0.1 - 1 μΜ
Starter 2	0.1 - 1 μΜ	0.1 - 1 μΜ
DNA template	10 pg - 1 μg	10 pg - 1 μg
Sterile water	up to 25 μl	up to 50 μl

- 3. Gently mix the samples and briefly centrifuge. If necessary, overlay the samples with mineral oil. (it's recommended for thermocyclers without heated lid).
- 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 ℃	2 - 3 min
25 - 45 cycles	95 °C 50 - 68 °C 72 °C	15 - 30 s 30 - 60 s 15 - 60 s

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



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