

Manual

StartWarm HS-PCR Mix

Standard ready-to-use mix for hot-start PCR. Contains *Taq* DNA polymerase and dye facilitating easy tracking of electrophoresis. 2x concentrated.

catalog#	size
2017-100	200 reactions in 25 μl
2017-1000	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
- $\bullet \qquad \quad \text{use of not recommended equipment or materials}$
- 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

StartWarm HS-PCR Mix is optimized ready to use standard hot-start PCR mixture containing recombinant Taq DNA polymerase, PCR buffer, MgCl₂, dNTPs.

Taq DNA polymerase is activated during the first cycle of PCR and the preheating step is not recommended.

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

Contents

	2017-100	2017-1000	storage
StartWarm HS-PCR Mix	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

StartWarm HS-PCR Mix composition

component	amount
Taq DNA polymerase	0.1 U/μl
MgCl ₂	2.5 mM
dNTPs	0.5 mM of each dNTP
red dye 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 tube on ice and add:

	PCR reaction volume		
component	25 μΙ	50 μl	
StartWarm HS-PCR Mix	12.5 μΙ	25 μΙ	
primer 1	0.1-1 μΜ	0.1-1 μΜ	
primer 2	0.1-1 μΜ	0.1-1 μΜ	
DNA template	10 pg-1 μg	10 pg-1 μg	
ultrapure water	up to 25 μl	up to 50 μl	
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- 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 ℃	3-5 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 an agarose gel for electrophoresis.



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