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Manual

qPCR-HS Mix Probe

High specificity ready-to-use mix for real-time Hot Start PCR designed for use with fluorescent probes. Mixture contains monoclonal antibody blocked Taq DNA polymerase (RUN-HS).

catalog #	size
2008HS-100P	200 reactions in 25 µl
2008HS-1000P	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

qPCR-HS Mix Probe is optimized for high specificity ready to use real-time Hot Start PCR mixture for use with fluorescent probes. Mixture contains all components required for qPCR except DNA template, primers and fluorescent probes . Activation of the monoclonal antibody blocked RUN-HS polymerase occurs during initial denaturation in PCR.

Contents

	2008HS-100P		2008HS-1000P		
	quantity	**cat #**	**quantity**	**cat #**	**storage**
2x qPCR-HS Mix Probe (qPCR-HS Mix Probe)	2 x 1.25 ml	K-28P-125A	20 x 1.25 ml	K-28P-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 qPCR protocol

1. Add to the PCR tubes:

component	volume 25 µl	final concentration
2x qPCR-HS Mix Probe	12.5 µl	1X
primer 1 (10 µM)*	0.5 µl	0.2 µM
primer 2 (10 µM)*	0.5 µl	0.2 µM
probe (10 µM)**	0.25 µl	0.1 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.

2. Gently mix the samples and briefly centrifuge.

3. Place the tubes in the thermocycler and start the PCR programme.
An example amplification profile:

reaction step (2 step PCR)	temperature	time	number of cycles
enzyme activation	95 °C	5 min	1
denaturation	95 °C	15 s	40
annealing* and extension	50-68 °C	30 s	

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

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