

## Manual

# qPCR-HS Mix EvaGreen®

High specificity ready-to-use mix for real-time Hot Start PCR with EvaGreen®. Mixture contains monoclonal antibody blocked Taq DNA polymerase (RUN-HS). The product is recommended for High Resolution Melting (HRM) analysis.

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

EvaGreen® is a registered trademark of Biotium Inc.

## Description

qPCR-HS Mix EvaGreen® is optimized for high specificity ready to use real-time Hot Start PCR mixture with EvaGreen® dye for HRM technique. Mixture contains all components required for qPCR except DNA template and primers. Activation of the monoclonal antibody blocked RUN-HS polymerase occurs during initial denaturation in PCR. The product is recommended for High Resolution Melting (HRM) analyses.

## Contents

	2008HS-100G		2008HS-1000G		storage
	quantity	cat #	quantity	cat #	
2x qPCR-HS Mix EvaGreen® (qPCR-HS Mix EG)	2 x 1.25 ml	K-28G-125A	20 x 1.25 ml	K-28G-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	final concentration
	25 $\mu$ l	
2x qPCR-HS Mix EvaGreen®	12.5 $\mu$ l	1X
primer 1 (10 $\mu$ M)*	0.5 $\mu$ l	0.2 $\mu$ M
primer 2 (10 $\mu$ M)*	0.5 $\mu$ l	0.2 $\mu$ M
DNA template	1-5 $\mu$ l	< 250 ng/reakcja
ultrapure water	up to 25 $\mu$ l	

\*For optimization, a primer titration should be performed from 0,2  $\mu$ M do 1  $\mu$ M 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	temperature	time	number of cycles
enzyme activation	95 °C	5 min	1
denaturation	95 °C	15 s	40
annealing*	50-68 °C	30 s	
extension**	72 °C	30 s	
melting step***	60-95 °C	0.05 s 0.2 °C	1

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

\*\*Time of extension depends on the length of the amplicon.

\*\*\*It is recommended to perform a melt curve to confirm the specificity of the reaction.



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