



## 5x HOT FIREPol® SolisGreen qPCR Mix

Suitable for ROX-dependent and ROX-independent qPCR cyclers

Cat. No.	Pack Size	Conc. (MgCl <sub>2</sub> )
08-46-0000S	0.2 ml SAMPLE (50 reactions)	12.5 mM
08-46-00001	1 ml (250 reactions)	12.5 mM
08-46-00008	8 ml (2000 reactions)	12.5 mM
08-46-00020	20 ml (5000 reactions)	12.5 mM

For *in vitro* use only

### Description:

HOT FIREPol® SolisGreen qPCR Mix is an optimised ready-to-use solution for real-time quantitative PCR assays, incorporating SolisGreen\* dye. It comprises all the components necessary, excluding the template and primers, to perform highly sensitive qPCR. The user simply needs to add water, template and primers. HOT FIREPol® DNA Polymerase is activated by a 10 min incubation step at 95°C. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

### Applications:

- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial detection
- Viral load determination

### Mix Composition:

- **HOT FIREPol® DNA Polymerase**
- **5x qPCR buffer**
- **12.5 mM MgCl<sub>2</sub>**  
*1x PCR solution – 2.5 mM MgCl<sub>2</sub>*
- **dNTPs**
- **SolisGreen dye**
- **Internal reference based on ROX dye**

### Shipping and Storage conditions:

Routine storage: -20°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of HOT FIREPol® SolisGreen qPCR Mix.

### Recommended qPCR reaction mix:

Component	Volume	Final conc.
5x HOT FIREPol® SolisGreen qPCR Mix	4 µl	1x
Primer Forward (10 pmol/µl)	0.16-0.5 µl	80-250 nM
Primer Reverse (10 pmol/µl)	0.16-0.5 µl	80-250 nM
DNA template <sup>1</sup>	variable <sup>1</sup>	variable <sup>1</sup>
H <sub>2</sub> O PCR grade	up to 20 µl	
<b>Total</b>	<b>20 µl</b>	

<sup>1</sup>Conc. of cDNA 0.1 pg/µl -10 ng/µl ; gDNA 10 pg/µl – 4 ng/µl

### Recommended qPCR cycles:

Cycle step	Temp.	Time	Cycles
<b>Initial activation<sup>2</sup></b>	<b>95°C</b>	<b>10 min</b>	1
Denaturation	95°C	10 s	40
Annealing	60°-65°C	20 s <sup>3</sup>	
Elongation	72°C	20 s	

<sup>2</sup> To activate the polymerase, include an incubation step at **95°C for 10 minutes** at the beginning of the qPCR cycle.

<sup>3</sup> For templates longer than 150 bp please increase the annealing and elongation time to 30 sec.

**HOT FIREPol® SolisGreen qPCR Mix is not compatible with the Applied BioSystems® 7900HT, StepOne™ or StepOnePlus™ systems.**

### Recommendations:

Reaction setup at room temperature is highly recommended for HOT FIREPol® SolisGreen qPCR Mix.

In order to prevent contamination, we recommend you to setup the reaction under laminar or in PCR box.

### Safety warnings and precautions:

This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

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\*SolisGreen is based on CYGREEN dye. CYGREEN is used under licence from Enzo Life Sciences, Inc. CYGREEN is a U.S. registered trademark of Enzo Life Sciences, Inc. U.S. Patent Nos. 8,153,802 and 7,569,695.