

Data Sheet

HOT FIREPoI® SolisGreen® qPCR Mix, 5x

Cat. No.	Pack Size	20 µl rxn
08-46-0000S	0.2 ml	50
08-46-00001	1 ml	250
08-46-00001-5	5x 1 ml	1250
08-46-00001-10	10 x 1 ml	2500
08-46-00008	8 ml	2000
08-46-00020	20 ml	5000

For *in vitro* use only

Description:

HOT FIREPoI® SolisGreen® qPCR Mix is a 5x-concentrated 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. with HOT FIREPoI® 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 FIREPoI® DNA Polymerase**
- **5x qPCR buffer**
- **12.5 mM MgCl₂**
1x PCR solution – 2.5 mM MgCl₂
- **dNTPs**
- **SolisGreen® dye**
- **Internal reference based on ROX dye**

Shipping and Storage conditions:

Routine storage: -18°C to -28°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of the product.

Manufactured by Solis BioDyne in compliance with the ISO 9001 and ISO 13485 certified Quality Management System.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Recommendations:

Reaction setup at room temperature.

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

Recommended qPCR reaction mix:

Component	Volume	Final conc.
HOT FIREPoI® SolisGreen® qPCR Mix (5x)	4 µl	1x
Forward primer (10 µM)	0.16–0.5 µl	80–250 nM
Reverse primer (10 µM)	0.16–0.5 µl	80–250 nM
DNA template	variable	variable ¹
H ₂ O PCR grade	up to 20 µl	
Total	20 µl	

¹ Conc. of cDNA 0.1 pg/µl–10 ng/µl; gDNA 10 pg/µl–4 ng/µl

Recommended qPCR cycling protocol:

Cycle step	Temp.	Time	Cycles
Initial activation²	95°C	10 min	1
Denaturation	95°C	10 s	40
Annealing ³	60°–65°C	20 s ⁴	
Extension	72°C	20 s ⁴	

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

³ The annealing temperature (Ta) depends on the melting temperature (Tm) of the primers. A Ta that is about 2 to 5°C lower than the Tm of the primers is generally suitable. Performing temperature gradient is recommended.

⁴ For templates longer than 150 bp, the annealing and extension time may be increased to 30 sec.

NB! HOT FIREPoI® SolisGreen® qPCR Mix is compatible with all common real-time PCR cyclers – simply select the standard settings for SYBR® Green or FAM.

HOT FIREPoI® SolisGreen® qPCR Mix **is not compatible** with qPCR cyclers that require high ROX levels for signal normalization, such as Applied BioSystems® 7900HT, StepOne™ or StepOnePlus™ systems.

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. Refer to Safety Data Sheet for more information.

Technical support:

Contact your sales representative for any questions or send an email to support@solisbiodyne.com

Online chat is available at www.solisbiodyne.com

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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.

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