

Data Sheet

HOT FIREPol® EvaGreen® qPCR Mix Plus (no ROX), 5x

Cat. No.	Pack Size	20 µl rxn
08-25-0000S	0.2 ml	50
08-25-00001	1 ml	250
08-25-00001-5	5 x 1 ml	1250
08-25-00001-10	10 x 1 ml	2500
08-25-00008	8 ml	2000
08-25-00020	20 ml	5000

For *in vitro* use only

Description:

HOT FIREPol® EvaGreen® qPCR Mix Plus (no ROX) is an optimised ready-to-use solution for real-time quantitative PCR assays, incorporating EvaGreen® dye. It comprises all the components necessary to perform qPCR: HOT FIREPol® DNA Polymerase, ultrapure dNTPs, MgCl₂ and EvaGreen® dye. The user simply needs to add water, template and primers.

HOT FIREPol® DNA Polymerase is activated by a 12 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 EvaGreen® qPCR buffer**
- **12.5 mM MgCl₂**
1x PCR solution – 2.5 mM MgCl₂
- **dNTPs**
- **EvaGreen® 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 FIREPol® EvaGreen® qPCR Mix Plus (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
H ₂ O PCR grade	up to 20 µl	
Total	20 µl	

¹Conc. 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	12 min	1
Denaturation	95°C	15 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 12 minutes** at the beginning of the qPCR cycle.

³ The annealing temperature (T_a) depends on the melting temperature (T_m) of the primers. A T_a that is about 2 to 5°C lower than the T_m 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.

EvaGreen® Dye:

EvaGreen® is a DNA-binding dye with many features that make it a superior alternative to SYBR® Green I for qPCR. Apart from having similar spectra, EvaGreen® has three important features that set it apart from SYBR® Green I: EvaGreen® has much less PCR inhibition, is an extremely stable dye and has been shown to be non-mutagenic and non-cytotoxic. EvaGreen® is compatible with all common real-time PCR cyclers – simply select the standard settings for SYBR® Green or FAM!

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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Trademark information: FIREPoI® is a trademark of Solis BioDyne. SYBR® is a registered trademark of Molecular Probes, Inc.

EvaGreen® is a registered trademark of BIOTIUM, INC. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

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