

Data Sheet

HOT FIREPol® EvaGreen® qPCR Mix Plus (Capillary), 5x

Cat. No.	Pack Size	20 μl rxn
08-26-0000S	0.2 ml	50
08-26-00001	1 ml	250
08-26-00001-5	5 x 1 ml	1250
08-26-00001-10	10 x 1 ml	2500
08-26-00020	20 ml	5000

For in vitro use only

Description:

HOT FIREPol® EvaGreen® qPCR Mix Plus (Capillary) 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
- BSA

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 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 activation ²	95°C	12 min	1
Denaturation	95°C	15 s	
Annealing ³	60°-65°C	20 s ⁴	40
Extension ⁴	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.

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!

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.

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

DS-08-26 v3 Revised 12.04.2022

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Trademark information: FIREPol® is an EU registered trademark of Solis BioDyne OÜ.

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