



## SOLIScript 1-step Multiplex Probe Kit (ROX)

Cat. No.	Size (20 µl Reactions)
08-59-0000S	50 reaction SAMPLE
08-59-00250	250 reactions

For *in vitro* use only

### Description:

SOLIScript 1-step Multiplex Probe Kit (ROX) is optimized for probe based one-step RT real-time quantitative PCR assays. It contains all the components necessary (except template, primers, and probes) to perform cDNA synthesis and probe based qPCR in a single tube.

SOLIScript RT is an *in silico*-engineered thermostable reverse transcriptase that is active at higher temperatures (up to 60°C) for providing highly specific results and working with templates with high secondary structure.

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.

SOLIScript 1-step Multiplex Probe Kit is optimized for DNA/LNA hydrolysis probes based on the 5' flap endonuclease activity.

### Applications:

- Detection and quantification of RNA targets with qPCR
- DNA/LNA hydrolysis probe based assays
- Suitable for singleplex and multiplex reactions

### Kit Content:

- **5x One-step Multiplex Probe Mix (ROX)**  
HOT FIREPol® DNA polymerase, reaction buffer, dNTPs (including dUTP), 15 mM MgCl<sub>2</sub> (1x qPCR solution - 3 mM MgCl<sub>2</sub>), ROX dye  
*If ROX dye is used as one of the fluorophores, internal passive reference dye might interfere with the signal – a version without ROX is available.*
- **40x One-step SOLIScript Mix**  
SOLIScript Reverse Transcriptase, RiboGrip RNase Inhibitor
- **Water, nuclease free**

### 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 SOLIScript 1-step Multiplex Probe Kit (ROX).

### Recommended RT-qPCR reaction mix:

Component	20 µl/rxn	Final conc.
5x One-step Multiplex Probe Mix (ROX)	4 µl	1x
40x One-step SOLIScript Mix	0.5 µl	1x
Primer Forward (10 pmol/µl)	0.4-0.8 µl	200-400 nM
Primer Reverse (10 pmol/µl)	0.4-0.8 µl	200-400 nM
Probe	Variable	100-250 nM
Optional: thermolabile UDG	Variable	Variable
RNA template (1 pg - 1 µg)	Variable	Variable
Water, nuclease free	up to 20 µl	
<b>Total</b>	<b>20 µl</b>	

### Recommended RT-qPCR cycles:

Cycle step	Temp.	Time	Cycles
Reverse transcription	50-60°C	15 min	1
Initial activation	95°C	10 min	1
Denaturation	95°C	15 s	40
Annealing/Elongation	60°C	60 s	

### 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.

**Permitted Use:** This product is supplied for research use only (the **Permitted Use**). If the customer wishes to use the product for any purpose other than the Permitted Use, including (without limitation) resale or alteration, the customer should obtain the appropriate licence from Solis BioDyne. Some applications of this product may require a license/licenses from one or more third parties which are not provided by the purchase of this product. Users should obtain the licence if required. Covered by the patent EP2501716, made by the methods of US Patent No 9,321,999.

**Warranty and Disclaimer:** This product shall comply with its relevant specification and be fit for its stated purpose, but Solis BioDyne gives no other warranty and makes no representation as to description or quality. Any such warranty or representation is excluded, to the fullest extent permitted by law. In particular, but without limiting the foregoing, Solis BioDyne shall not be liable for the failure of the product to comply with its relevant specification where such failure arises as a result of: (i) customer negligence or because the customer failed to follow any of the applicable technical data or safety sheets, standard user materials, use guidelines or any other information provided by Solis BioDyne as to the storage, transportation, handling, use or maintenance of the products or other good practice regarding the same, or (ii) the customer altering the products in any way without the prior written consent from Solis BioDyne, or (iii) the products differing from the relevant specification as a result of changes made to ensure their compliance with applicable statutory or regulatory requirements.

Nothing shall limit or exclude Solis BioDyne's liability for death or personal injury caused by its negligence, fraud or fraudulent misrepresentation or any matter in respect of which it would be unlawful for Solis BioDyne to exclude or restrict liability. Without limiting the foregoing, Solis BioDyne shall under no circumstances whatever be liable to the customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, or any indirect or consequential loss arising under or in connection with the products and Solis BioDyne's total liability to the customer in respect of all other losses arising under or in connection with the product, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed the price of the products supplied in respect of which the liability has arisen.