



## SOLIScript 1-step Probe Kit

Suitable for ROX-dependent and ROX-independent qPCR cyclers

Cat. No.	Size (20 µl Reactions)
08-57-0000S	50 reaction SAMPLE
08-57-00250	250 reactions

For *in vitro* use only

### Description:

SOLIScript 1-step Probe Kit 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 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 or duplex reactions

### Kit Content:

- **5x One-step Probe Mix**  
HOT FIREPol® DNA polymerase, reaction buffer, dNTPs, 15 mM MgCl<sub>2</sub> (1x qPCR solution - 3 mM MgCl<sub>2</sub>), internal reference based on ROX dye
- **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 Probe Kit.

### Recommended RT-qPCR reaction mix:

Component	20 µl/rxn	Final conc.
5x One-step Probe Mix	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
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.