

SOLIS  
BIODYNE

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# SOLIScript® 1-step SolisGreen® Kit

Highly sensitive  
dye-based one-step  
RT-qPCR

[solisbiodyne.com](http://solisbiodyne.com)



## Features

SOLIScript® 1-step SolisGreen® Kit is an optimized solution for highly sensitive real-time one-step RT-PCR (RT-qPCR) using intercalating dye detection via the SYBR®/FAM fluorescence channel.

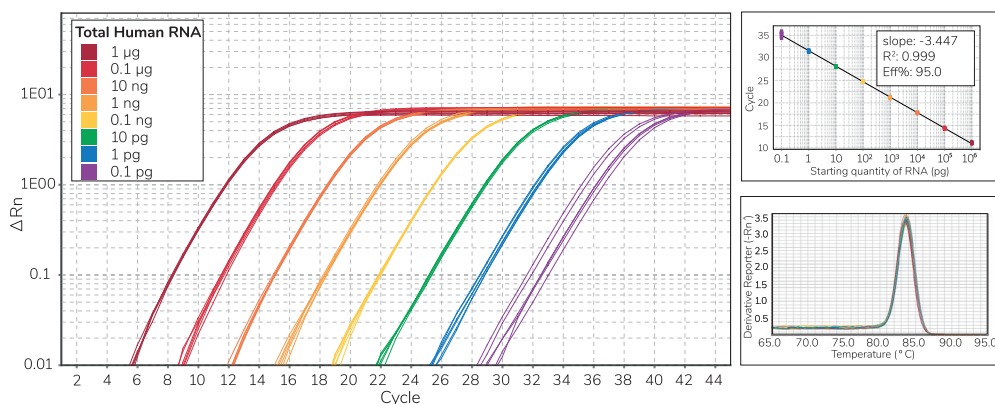
Contains all the components necessary, except RNA template and primers, to perform cDNA synthesis and qPCR in a single tube.

## Applications

- Gene expression analysis and absolute quantification
- Pathogen detection and quantification
- Low-copy gene detection
- Gene knockdown validation
- miRNA profiling and quantification
- GMO characterization

Accurate  
quantification across a  
broad dynamic range

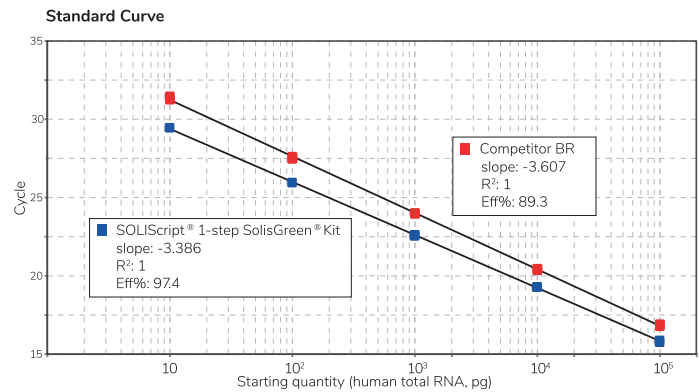
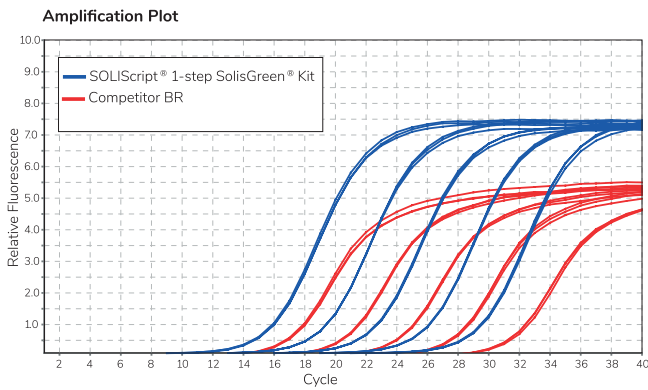
30-day stability at room temperature!



**Figure 1.** One-step RT-qPCR targeting PPIA (Peptidylprolyl Isomerase A) gene fragment (101 bp) using eight 10-fold serial dilutions (0.1 pg–1 µg, six replicates at each concentration) of Human Reference RNA (total RNA pooled from 10 human cell lines). Reactions were run on Applied BioSystems™ QuantStudio™ 6 Flex qPCR cycler using the following protocol: 15 min RT at 50 °C, 10 min enzyme activation at 95 °C, followed by 40 cycles of 95 °C for 10 sec, 60 °C for 20 sec, 72 °C for 20 sec.

## Sensitive amplification and bright fluorescent signal

**Figure 2.** The human B2M (Beta-2-Microglobulin) target was quantified using five 10-fold serial dilutions (10 pg–100 ng, three replicates at each concentration) of Human Reference RNA with either the SOLIScript® 1-step SolisGreen® Kit (blue) or 1-step dye-based RT-qPCR kit from Competitor BR (red). Reactions were run on Applied Biosystems™ QuantStudio™ 6 Flex according to each manufacturer’s protocol.

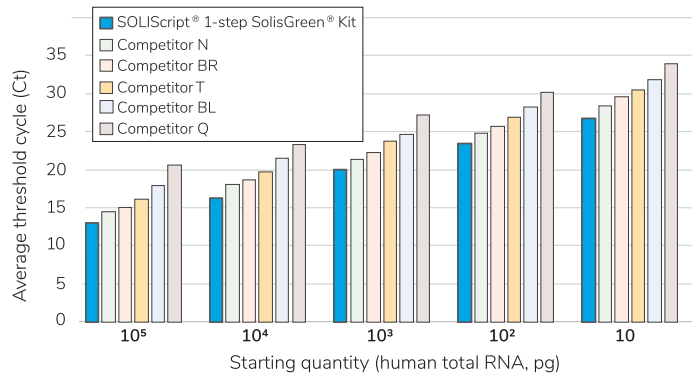


### Kit components:

- **40x One-step SOLIScript® Mix** contains an in silico-engineered SOLIScript® Reverse Transcriptase and RiboGrip™ RNase Inhibitor. SOLIScript® is a thermostable enzyme active at temperatures up to 60 °C to deliver highly specific results for templates with high levels of secondary structure. RiboGrip™ protects RNA from degradation by inhibiting RNase A and increases cDNA yield in reactions with low amounts of starting RNA.
- **5x One-step SolisGreen® Mix** contains HOT FIREPol® DNA Polymerase, SolisGreen® dsDNA-intercalating dye and a ROX-based passive reference dye in a unique reaction buffer maximizing the performance of both reverse transcriptase and DNA polymerase in a single assay.
- **Nuclease-free water**

## The lowest Ct values in competition with other vendors

**Figure 3.** The human B2M (Beta-2-Microglobulin) target was quantified by one-step RT-qPCR using five 10-fold serial dilutions (10 pg–100 ng, three replicates at each concentration) of Human Reference RNA (total RNA pooled from 10 human cell lines) with either the SOLIScript® 1-step SolisGreen® or 1-step dye-based RT-qPCR kits from other vendors. Reactions were run according to each manufacturer’s protocol.



## Ordering information

| Product                            | CAT. NO.                            | RXN / 20 µl |
|------------------------------------|-------------------------------------|-------------|
| SOLIScript® 1-step SolisGreen® Kit | 08-63-0000S (sample)<br>08-63-00250 | 50<br>250   |



FL-08-63-V1

For further details and ordering please contact [info@solisbiodyne.com](mailto:info@solisbiodyne.com) or call +372 740 9960