



**SOLIS
BIODYNE**

INNOVATION POWERED BY NATURE

SOLIS BIODYNE OÜ

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SolisFAST® 1-step RT-PCR Kit with UNG

Sensitive and highly specific cDNA synthesis and end-point PCR reaction in a single tube.

solisbiodyne.com

Suitable for virus detection - determine the presence or absence of RNA

Great performance in both singleplex and multiplex RT-PCR assays

Easy to use, fast and sensitive

SolisFAST® 1-step RT-PCR Kit with UNG provides a simple and streamlined workflow for analyzing RNA targets using reverse transcription PCR (RT-PCR). Both the cDNA synthesis and PCR are conveniently performed in one tube greatly simplifying the analysis workflow, reducing reaction-to-reaction variation, minimizing hands-on steps and reducing reaction set-up to results time.

Exceptionally fast and robust SolisFAST® polymerase combined with our highly processive reverse transcriptases make SolisFAST® 1-step RT-PCR Kit with UNG the fastest kit on the market to perform RT-PCR with unparalleled under 1-hour reaction times. Optimized composition ensures superior sensitivity allowing detection of as little as 0.1 pg of RNA and enabling efficient multiplexing of up to 5 RNA targets simultaneously.

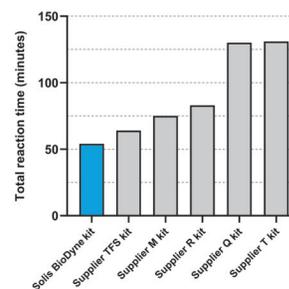


Figure 1. Total reaction times in minutes for amplifying a 496 bp fragment with SolisFAST® 1-step RT-PCR Kit with UNG and compared to one-step RT-PCR kits from various other suppliers using the fastest protocol as per their Data Sheet.

Highly sensitive and competitive detection of low amounts of RNA

Features

- **Faster than ever** – under **1-hour** RT-PCR cycling protocol
- **Superior sensitivity** – detect as little as **0.1 pg of RNA**
- **Discover the convenience of multiplexing** – amplify up to **5 targets** simultaneously in one reaction
- **Tackle GC-rich amplicons** with **AmpliBoost™** RT-PCR enhancer
- **Prevent carry-over contamination** with preblended **UNG** enzyme
- **Inherently stable** due to proprietary **Stability TAG** technology

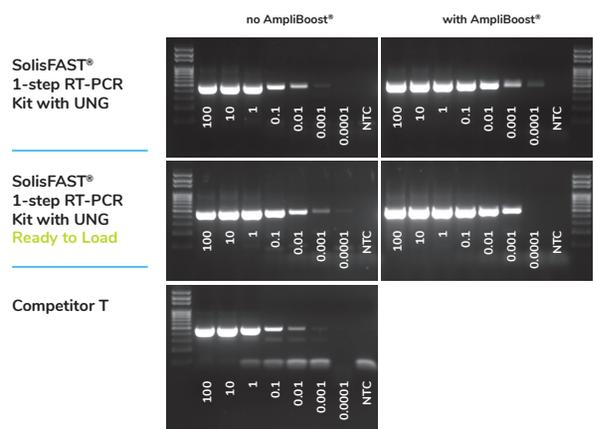


Figure 2. High sensitivity and robust detection from low RNA input amounts. A 496 bp fragment was successfully amplified from a serial dilution of 100 ng to 0.1 pg of Human Reference Total RNA (Agilent) using a quick cycling protocol (54 minutes total reaction time). Comparison with competitor T 1-step RT-PCR kit used according to manufacturer's Data Sheet.

Suitable for both singleplex and multiplex assays

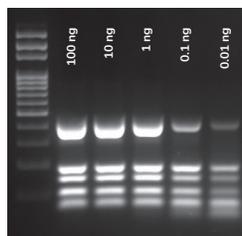


Figure 3. SolisFAST® 1-step RT-PCR Kit with UNG Ready to Load was used in multiplex RT-PCR from various RNA input amounts. Five targets (72, 109, 159, 206 and 443 bp) were efficiently amplified from 100 to 0.01 ng of Human Reference Total RNA (Agilent).

Inherent stability – convenient to use

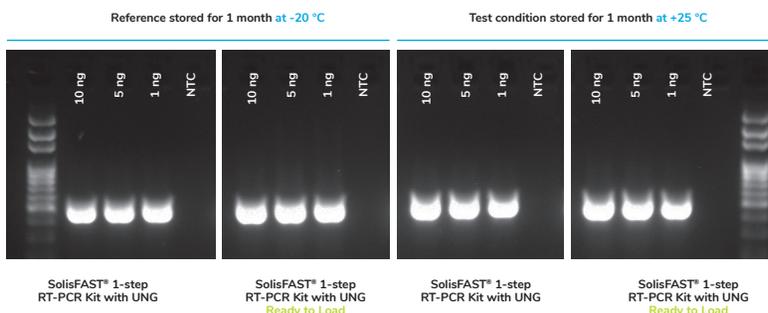
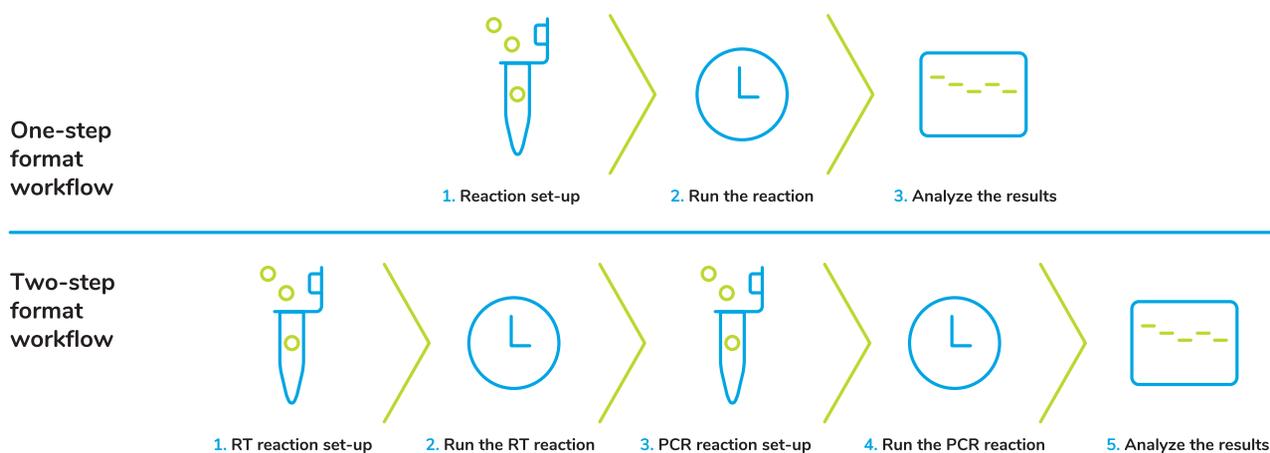


Figure 4. SolisFAST® 1-step RT-PCR Kit with UNG is stable at 25 °C for 1 month. SolisFAST® 1-step RT-PCR Kit with UNG and SolisFAST® 1-step RT-PCR Kit with UNG Ready to Load were stored at two conditions – 1 month at +25 °C or -20°C. Following this a 496 bp fragment was amplified with the kits from Human Reference Total RNA (Agilent) showing equivalent performance between the two conditions.

Perform RT-PCR in an optimized 1-step format to save time and ensure consistent results



Ordering information

Bulk solutions available!

Product	CAT. NO.	Size (20 µL rxn)	Read more
SolisFAST® 1-step RT-PCR Kit with UNG	04-52-0000S (sample) 04-52-00050 04-52-00200 04-52-01000	50 rxn 50 rxn 200 rxn 1000 rxn	
SolisFAST® 1-step RT-PCR Kit with UNG Ready to Load	04-54-0000S (sample) 04-54-00050 04-54-00200 04-54-01000	50 rxn 50 rxn 200 rxn 1000 rxn	

FL-04-52/54-V2



For further details and ordering please contact info@solisbiodyne.com or call +372 740 9960

Request for a free sample
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