



**SOLIS  
BIODYNE**

INNOVATION POWERED BY NATURE

SOLIS BIODYNE OÜ

A: Teaduspargi 9, 50411 Tartu, Estonia

E: info@solisbiodyne.com

T: +372 7409 960

# 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.

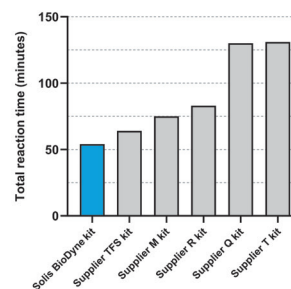


Figure 1. Total reaction times in minutes for amplifying a 496 bp fragment with SolisFAST® 1-step RT-PCR Kit with UNG and compared to one-step RT-PCR kits from various other suppliers using the fastest protocol as per their Data Sheet.

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

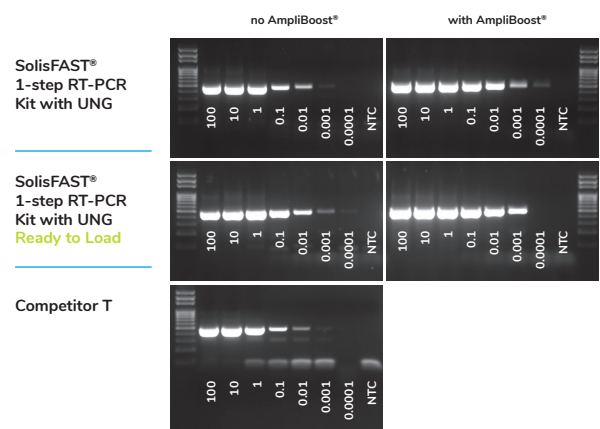
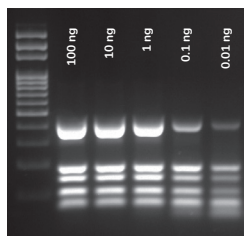


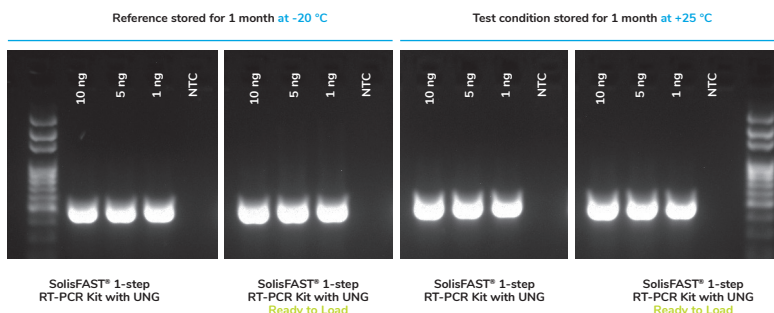
Figure 2. High sensitivity and robust detection from low RNA input amounts. A 496 bp fragment was successfully amplified from a serial dilution of 100 ng to 0.1 pg of Human Reference Total RNA (Agilent) using a quick cycling protocol (54 minutes total reaction time). Comparison with competitor T 1-step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

**Suitable for both  
singleplex and multiplex  
assays**



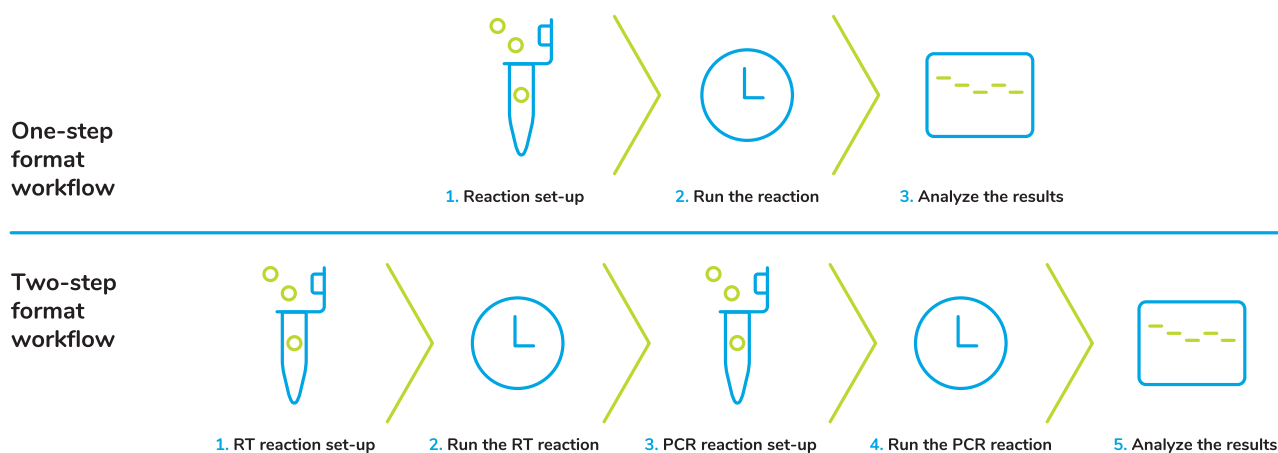
**Figure 3.** SolisFAST® 1-step RT-PCR Kit with UNG Ready to Load was used in multiplex RT-PCR from various RNA input amounts. Five targets (72, 109, 159, 206 and 443 bp) were efficiently amplified from 100 to 0.01 ng of Human Reference Total RNA (Agilent).

**Exceptional stability – convenient to  
use, environment-friendly to ship**



**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-V1**



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

**Request for a free sample**  
[info@solisbiodyne.com](mailto:info@solisbiodyne.com)