



# Polypeptide Stabilization Technology: Stability TAG

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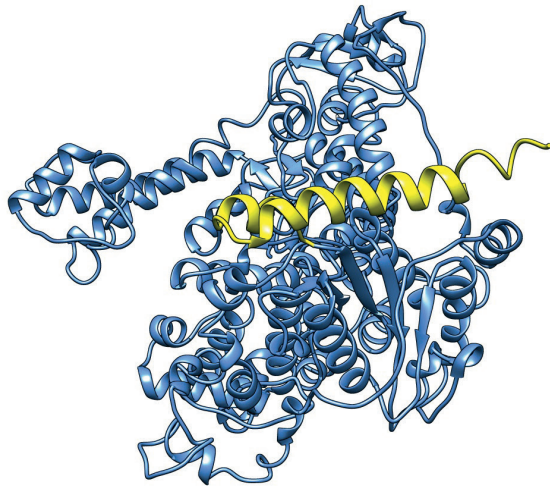
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# All enzymes produced at Solis BioDyne are exceptionally stable at room temperature\* due to a specific genetic modification - **Stability TAG**.

3D MODEL OF FIREPOL® DNA POLYMERASE  
INCLUDING STABILITY TAG



■ Taq DNA Polymerase ■ Stability TAG

All enzymes produced at Solis BioDyne, including DNA polymerases and reverse transcriptases, as well as other proteins (i.e. RNase inhibitor, uracil-N-glycosylase), are exceptionally stable at room temperature due to a proprietary genetic modification in the polypeptide structure - **Stability TAG**.

All our catalogue products can withstand 1 month at room temperature without detectable change in the performance of the product, which enables shipping our products without ice. The exceptional product stability is furthermore supported by our unique buffer composition. Stability tag enhances also long-term stability of our enzymes stored at -20°C which is the recommended storage temperature of all our products upon arrival, to ensure maximum shelf-life.

\* Room temperature is 15-25°C according to "guidelines for the Storage of Essential Medicines and Other Health Commodities", World Health Organization (2003)

EU Patent EP2501716 | India Patent no 343501 | Korea Patent No 10-1773636 | US Patent No 9,321,999

## Reference:

“ Strategic cooperation with the Solis BioDyne team has been one of the most efficient we have experienced during our COVID-19 diagnostic kits products development. Their room temperature stable mastermix is an excellent product which has helped us to reach higher sensitivity and stability of our qPCR diagnostic kits. ”

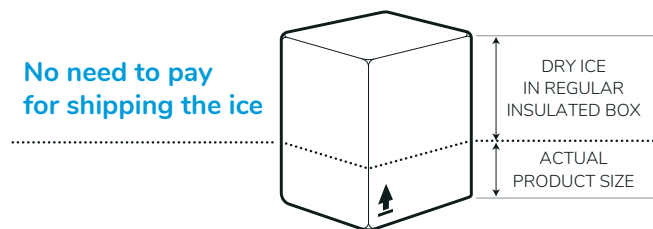
**PETER KILIAN**

Chief Operating Officer at MultiplexDX



Request a FREE sample at [solisbiodyne.com](https://solisbiodyne.com) or [info@solisbiodyne.com](mailto:info@solisbiodyne.com)

# Benefits of Stability TAG



Our Stability TAG technology means we can ship your order without dry ice and large insulation boxes, which is better both for the environment and your budget:

- less material used for packaging
- lower package weight
- less fuel used for transportation
- lower shipping charges for you
- no additional regulations for shipping and receiving the goods
- accessible for all labs

## Room temperature shipment means

- 10x less cost than regular dry-ice shipments
- 100x less cost than temperature-controlled dry-ice shipment

## Quality Control

Solis BioDyne's production and product development takes place in a state-of-the-art laboratory, under the supervision of experienced scientists and technicians.

To ensure the highest quality and lot-to-lot consistency, strict quality procedures are followed and documented at all stages of production. Certificates of Analysis (CoA) are available for each lot upon request.

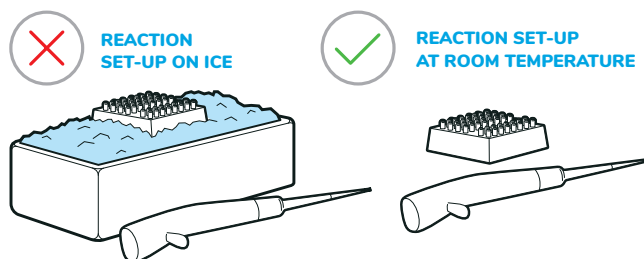


Solis BioDyne Quality Management System is certified to ISO 13485:2016 and ISO 9001:2015 standards.

## Convenient reaction set-up

Our room temperature stable enzymes allow ice-free reaction set-up.

- Saves valuable bench space
- Convenient for high-throughput workflows
- No harm is done if you forget your enzymes out of fridge for weeks

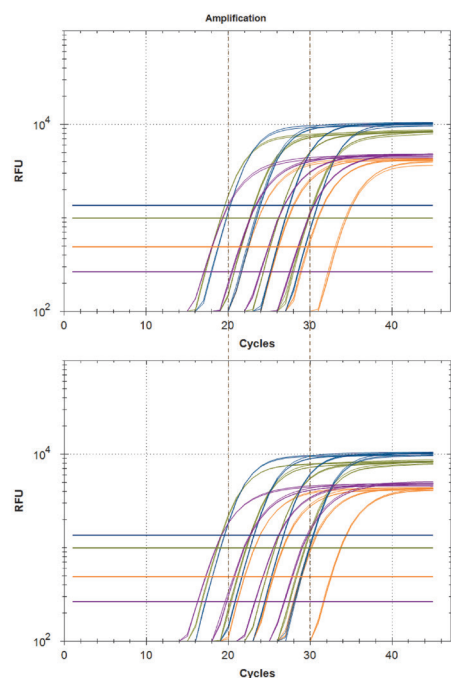


## IVD grade reagents

Quality has always been the core value of our work. To ensure we match the high-quality requirements of our partners in the research and diagnostic sector, we implemented the ISO 13485 standard in 2018 to complement the ISO 9001 certificate we acquired in 2007. Our ISO certificates ensure

- High-quality products
- Lot-to-lot consistency
- Supply chain security and traceability
- Manufacturing process consistency

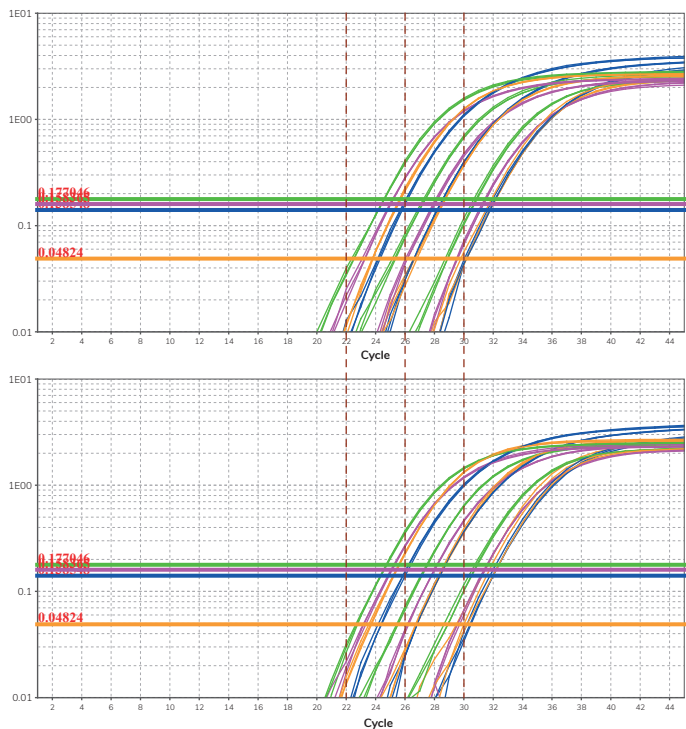
# Stability TAG ensures product stability at room temperature for 30 days



## STABILITY OF SOLIScript® 1-STEP CoV KIT

SOLIScript® 1-step CoV Kit contains 3 different polypeptides with Stability TAG – SOLIScript® RT, RiboGrip™ RNase inhibitor and HOT FIREPol® DNA Polymerase. The kit was used in a 4-plex qPCR experiment with 4 tenfold serial dilutions of human total RNA (from 4 ng/μl to 4 pg/μl). Reactions were run on Bio-Rad CFX96 qPCR platform. SOLIScript® 1-step CoV Kit shows no loss of activity after incubation at room temperature for 1 month (upper graph) compared to storing at –20°C (lower graph).

■ FAM ■ ROX ■ VIC ■ Cy5



## STABILITY OF SOLISFAST PROBE qPCR MASTER MIX (PURPLE)

SolisFAST® Probe qPCR Mix (Purple) was used in 4-plex qPCR amplification with 3 tenfold serial dilutions of human gDNA (from 2 ng/μl to 0.02 ng/μl). Reactions were run on Applied BioSystems™ QuantStudio™ 6 Flex cyclor using Purple dye for normalization. SolisFAST® Probe qPCR Mix (Purple) shows no loss of activity after incubation at room temperature for 1 month (upper graph) compared to storing at –20°C (lower graph).

■ FAM ■ JUN ■ ABY ■ VIC