

# SolisFAST® Lyo-Ready qPCR Kit with UNG

## Description

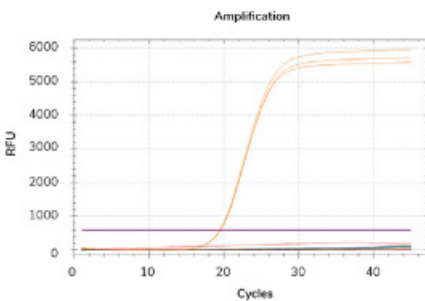
SolisFAST® Lyo-Ready qPCR Kit with UNG is an optimized solution for fast and sensitive amplification and quantitation of DNA targets with probe-based assays. The kit comes in 2 tubes: the glycerol-free 5x SolisFAST® Lyo-compatible qPCR Mix with UNG and 4x SolisFAST® Lyo Excipient Mix. The composition is optimized for lyophilization to cakes or beads.

5x SolisFAST® Lyo-compatible qPCR Mix with UNG is a 5x concentrated qPCR master mix suitable for real-time detection and quantitation of up to five DNA targets simultaneously. It contains dUTPs instead of dTTPs, as well as Salini UNG® Uracil-N-Glycosylase to prevent carry-over contamination from previous amplifications. The mix does not contain any lyophilization additives or excipients.

4x SolisFAST® Lyo Excipient Mix is a 4x concentrated blend of additives that protect reagents during lyophilization. In combination with the glycerol-free qPCR mix, it enables lyophilization to beads or cakes.

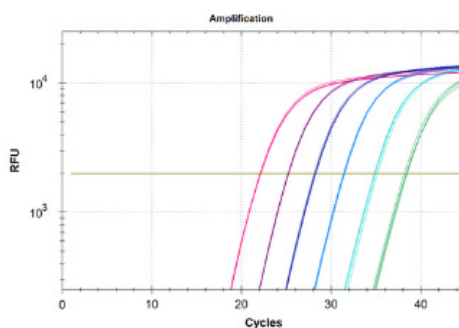
## Applications

- Detection and quantification of DNA and cDNA targets
- Lyophilization to beads and cakes
- DNA/LNA hydrolysis probe-based assays
- Singleplexing and multiplexing (up to 5 plex)
- Microbial detection
- Viral load determination
- Genotyping



■ No UNG control ■ Liquid form ■ Lyophilized form  
■ Lyophilized with primers and probes

Prevent false positive results with Salini UNG® Uracil-N-Glycosylase.



Wide dynamic range

DNA conc. (ng/μl)	Standard cycling ~1 hour*		Fast cycling ~45 min*	
	Liquid reagents Mean Cq	Lyophilized reagents Mean Cq	Liquid reagents Mean Cq	Lyophilized reagents Mean Cq
5	22.6	22.7	22.3	22.7
0.5	25.9	26.0	25.5	25.8
0.05	29.2	29.3	28.6	29.0
0.005	32.3	32.8	32.2	32.4
Efficiency	104%	99%	102%	103%

\*Reactions were run on the Real-Time PCR System. The same cycling protocol will result in different run times depending on the system.

Consistency in Cq values with liquid and lyophilized reagents under standard and fast cycling.

## Properties

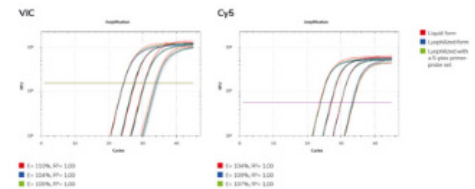
Sample type: DNA  
Hot-start: yes, 30 sec to 3 min initial activation at 95 °C  
Cycling speed: fast or ultra-fast  
Product format: reagent kit  
Detection type: probe-based  
Reference dye: none

Compatible real-time instruments: The product is compatible with most qPCR cyclers. If using a ROX-dependent platform, add ROX in concentrations recommended by the platform manufacturer, or switch off ROX normalization prior to the run.

## Kit Components

SolisFAST® Lyo-Ready qPCR Kit with UNG comprises:

- 5x SolisFAST® Lyo-compatible qPCR Mix with UNG: SolisFAST® DNA polymerase, Salini UNG® Uracil-N-Glycosylase, nucleotides (dUTPs, dATPs, dCTPs and dGTPs), MgCl<sub>2</sub> (5x mix - 16.5 mM, 1x mix - 3.3 mM), glycerol-free reaction buffer.
- 4x SolisFAST® Lyo Excipient Mix: A proprietary mix of lyophilization additives that serve as cryoprotectants and stabilizers.



Consistent performance before and after lyophilization, as well as after lyophilization with primers and probes.

