

# SolisFAST® SolisGreen® qPCR Mix



Some applications of this product may require a license which is not provided by the purchase of this product.

**For research use only.**

## Description

SolisFAST® SolisGreen® qPCR Mix is a 5x-concentrated ready-to-use solution optimized for fast, highly sensitive and reproducible dye-based qPCR assays.

Combining novel *in silico*-designed SolisFAST® DNA Polymerase with fast hot-start, optimized buffer and the SolisGreen® dye, this qPCR Mix offers robust qPCR, accurate target detection, ice free shipping and reaction set-up.

## Applications

- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial detection
- Viral load determination

## Extremely fast and highly sensitive dye-based qPCR

Extremely fast and highly sensitive dye-based qPCR for most demanding applications.

- qPCR results 2x faster
- highly sensitive SolisGreen® dye
- reaction set-up and shipment without dry ice

## Ordering

### Choose Product Size

- 1 ml | 250 rxn
- 5 x 1ml | 1250 rxn
- 20 ml | 5000 rxn
- 0.2 ml | 50 rxn **free sample**

REQUEST FOR BULK SIZE

## Properties

**Concentration:** 5x

**Hot-start:** yes, 3 minutes initial incubation at 95°C

**Cycling speed:** fast and ultra-fast

**Detection type:** dye-based, includes SolisGreen® intercalating dye

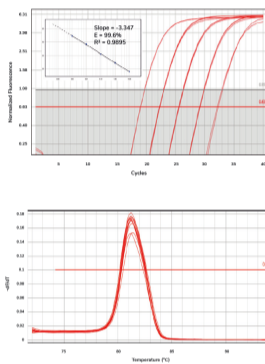
**Reference dye:** none

**Compatible real-time instruments:** Most qPCR cyclers that do not require reference dye.

## SolisGreen<sup>®</sup> dye

This dye-based qPCR mix contains next generation DNA binding dye SolisGreen<sup>®</sup>. The fluorescence spectra of this dye is similar to the more widely used SYBR<sup>®</sup> Green I and is compatible with most major realtime cyclers. SolisGreen<sup>®</sup> dye shows:

- high fluorescence level
- high sensitivity for detecting low template concentrations
- high stability for room temperature storage



Accurate and sensitive qPCR

## Mix Components:

**SolisFAST<sup>®</sup> DNA Polymerase:** *In silico*- designed analogue of Taq DNA polymerase with enhanced stability at room temperature, fast hot-start and faster extension rates compared to the wild-type Taq DNA polymerase.

**qPCR buffer:** Includes 7.5 mM MgCl<sub>2</sub> (1X PCR solution 1.5 mM MgCl<sub>2</sub>), dNTPs (dATP, dCTP, dGTP, dTTP), stabilizers and enhancers that maximize efficiency of PCR reaction

**Fluorescent dye:** SolisGreen<sup>®</sup> is a nucleic acid dye detected in the FAM or SYBR<sup>®</sup> Green I channel

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