

#### SOLIS BIODYNE OÜ

E: info@solisbiodyne.com T: +372 7409 960 F: +372 7402 079

SolisFAST® SolisGreen® qPCR Mix

Fast and highly sensitive dye-based qPCR

solisbiodyne.com



# **Features**

- Fast delivers reproducible qPCR results up to 2x faster
- Accurate reliable quantification across technical replicates
- Sensitive consistent results with low- and high-copy targets
- **Trustworthy** robust performance and 30-day stability at room temperature for extra convenience

The mix contains all components necessary, except primers, nuclease-free water, and DNA template.

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.

#### Results in 30 minutes!

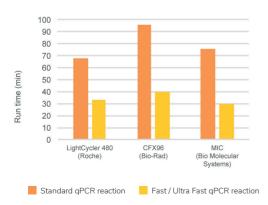


Figure 1. Thermal cycling protocol time saving. Duration of a qPCR run with standard thermal conditions using regular qPCR mix and fast thermal conditions using SolisFAST® SolisGreen® qPCR Mix (refer to Table 1 for program details).

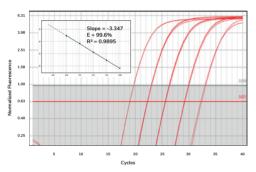
Worldwide ice-free shipping!

### Ultra fast cycling without compromising on performance!

|  |                                    |        | LC480<br>(Roche) | CFX96<br>(Bio-Rad) |        | Mic<br>(BMS)  |        |
|--|------------------------------------|--------|------------------|--------------------|--------|---------------|--------|
| Cycling mode  Initial denaturation at 95°C |                                    | Fast   | Fast*            | Ultra<br>Fast      | Fast*  | Ultra<br>Fast | Fast*  |
|  |                                    | 3 min  | 2 min            | 2 min              | 2 min  | 1 min         | 2 min  |
| 40 cycles                                  | Denaturation at 95°C               | 5 sec  | 5 sec            | 1 sec              | 5 sec  | 1 sec         | 5 sec  |
|  | Annealing/extension at 60°C - 65°C | 20 sec | 20 sec           | 5 sec              | 20 sec | 1 sec         | 20 sec |
| Total run time                             |                                    | 64 min | 33 min           | 40 min             | 60 min | 30 min        | 50 min |

**Table 1.** Examples of cycling conditions and run times with SolisFAST® SolisGreen® qPCR Mix on different qPCR cyclers: QuantStudio™ 6 Flex (Applied Biosystems), LightCycler® 480 (Roche), CFX96™ (Bio-Rad), Mic (Bio Molecular Systems). qPCR cycler (Bio Molecular Systems). Thermal conditions: activation 30 sec at 95 °C, cycling 5 sec at 95 °C, 20 sec at 60 °C.

## Accurate and sensitive qPCR!



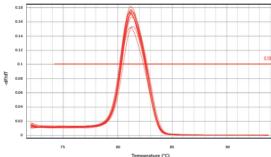


Figure 2. Amplification of a 75 bp fragment of B2M gene using five tenfold dilutions of human cDNA (100 ng – 10 pg with three replicates at each concentration) with SolisFAST® SolisGreen® qPCR Mix. qPCR was performed on a Mic qPCR cycler (Bio Molecular Systems). Thermal conditions: activation 30 sec at 95 °C, cycling 5 sec at 95 °C, 20 sec at 60 °C.

# **Ordering information**

| Product                                  | CAT. NO.   | RXN / 20 µl   |
|--|--|---|
| SolisFAST™ SolisGreen® qPCR Mix (no ROX) | 28-41-0000S<br>28-41-00001<br>28-41-00001-5<br>28-41-00020 | 50 rxn / 20 μl<br>250 rxn / 20 μl<br>5x (250 rxn / 20 μl)<br>5000 rxn / 20 μl |
| SolisFAST™ SolisGreen® qPCR Mix (ROX)    | 28-46-0000S<br>28-46-00001<br>28-46-00001-5<br>28-46-00020 | 50 rxn / 20 μl<br>250 rxn / 20 μl<br>5x (250 rxn / 20 μl)<br>5000 rxn / 20 μl |





<sup>\*</sup> Typical fast cycling program compatible with a wide range of qPCR cyclers.