



# DATA SHEET

## 2x **EpisoZYme** qPCR Mix (w/o ROX)

| Cat. No. | Pack Size    | Conc. |
|----------|--------------|-------|
| EZQ-01S  | 2 x 1.25 ml  | 2x    |
| EZQ-01L  | 10 x 1.25 ml | 2x    |

2x **EpisoZYme** qPCR-Mix is an optimized ready-to-use master mix in real-time quantitative PCR (qPCR) reaction. The mix contains all reagents required for qPCR (except template and primers) in a premixed 2x concentrated. Only the primers and template need to be added. The mix is based on a thermostable DNA polymerase that its activity is blocked by antibody at ambient temperature.

### Contents

2x **EpisoZYme** qPCR-Mix contains antibody-blocked mutated Taq DNA polymerase, dATP, dCTP, dGTP, dTTP, KCl, (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, MgCl<sub>2</sub>, additives and stabilizers in a buffer.

### Recommended PCR Reaction Mix

| 2x Master Mix        | 10 µl    | 25 µl    | 1x                 |
|----------------------|----------|----------|--------------------|
| 10 µM Forward Primer | 1.0 µl   | 2.5 µl   | 0.5 µM (0.05–1 µM) |
| 10 µM Reverse Primer | 1.0 µl   | 2.5 µl   | 0.5 µM (0.05–1 µM) |
| Template DNA         | variable | variable | <100 ng            |
| Nuclease-Free Water  | to 20 µl | to 50 µl |                    |

### Quality Certifications

Functionally tested in qPCR.

### Preparation of qPCR Master Mix

A reaction volume of 20-50 µl is recommended for most real-time PCR instruments. Prepare template/primers mix in a volume of 10-25 µl (half of the total reaction volume). Vortex the qPCR master mix thoroughly to ensure homogeneity and mix with template/primers at equal volumes into real-time PCR tubes or wells of the PCR plate. Cap or seal the tubes/plate. Do not exceed 100 ng template per reaction as final concentration. Tubes or plates should be centrifuged before PCR reaction to remove possible bubbles.

### Thermocycling Conditions for a Routine PCR

| Step                 | Temp.                      | Time                    |
|----------------------|----------------------------|-------------------------|
| Initial Denaturation | 95 °C                      | 3 m                     |
| 35-45 Cycles         | 95 °C<br>45-60 °C<br>74 °C | 15 s<br>30 s<br>10-20 s |
| Melting Curve        | 65-95 °C                   | 2-5 s/step              |

### Storage

At temperature -20 °C ± 5 °C.

### Safety warnings and precautions

This product is designed for research purposes and *in vitro* use only. According to common laboratory safety practice, it is recommended to wear protective clothing, gloves and safety glasses.



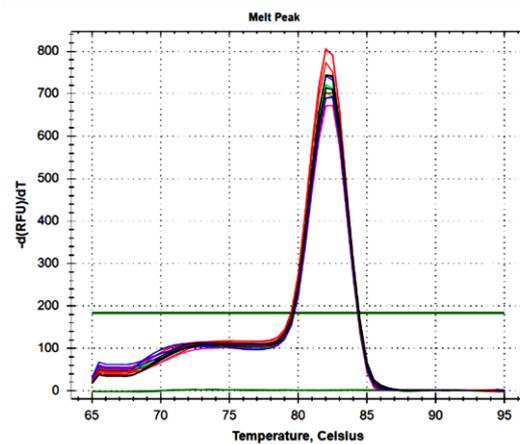
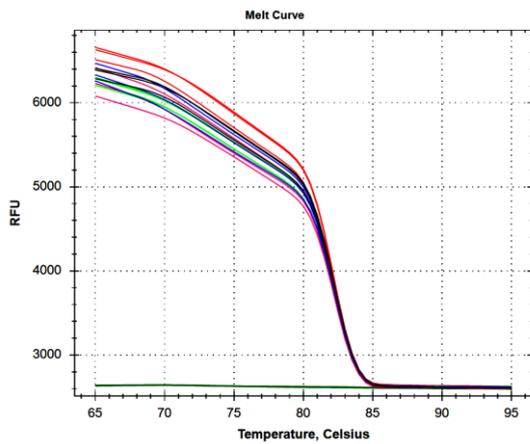
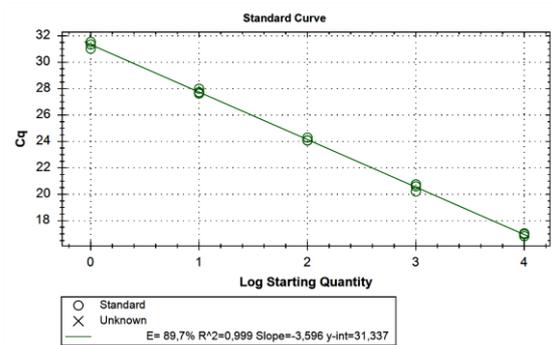
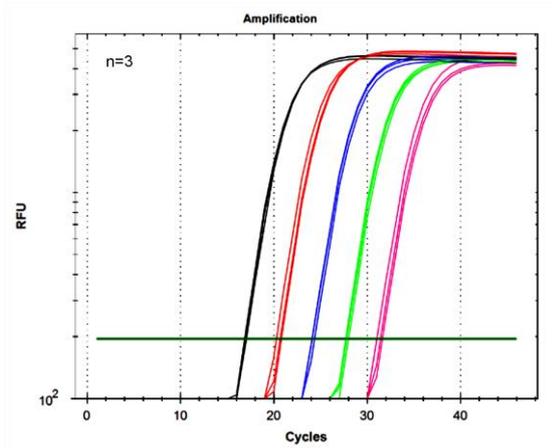
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# DATA SHEET



qPCR targeting a cDNA cloned in a plasmid DNA (1.0 ng - 0.1 pg) using the 2x *EpisoZYme* qPCR Mix (EZQ-01)



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