DATA SHEET

2x EpisoZYme qPCR Mix
(w/o ROX)

Cat. No.	Pack Size	Conc.
EZ-Q01S	1.25 ml	2x
EZ-Q01M	2.5 ml	2x
EZ-Q01L	10 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 the fluorescent DNA stain and 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, $(NH_4)_2SO_4$, $MgCl_2$, DNA intercalator dye, additives and stabilizers in a buffer.

Recommended PCR Reaction Mix

2x Master Mix	10 µl	25 µl	1x
10 µM Forverd Primer	1.0 µl	2.5 µl	0.5 µM (0.05–1 µM)
10 µM Revers 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 45-60 °C 74 °C	15 s 30 s 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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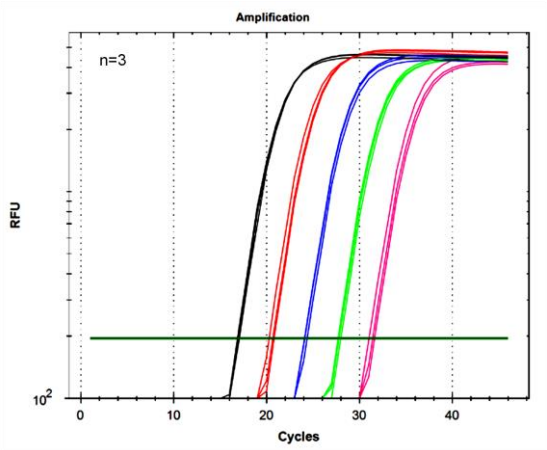

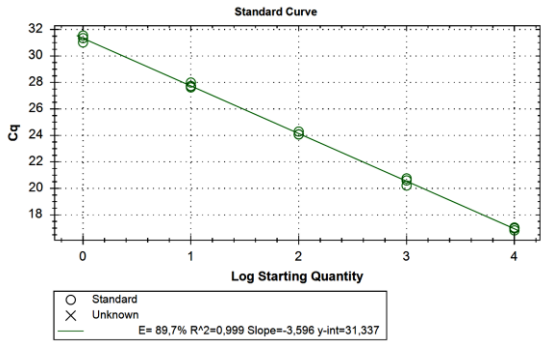

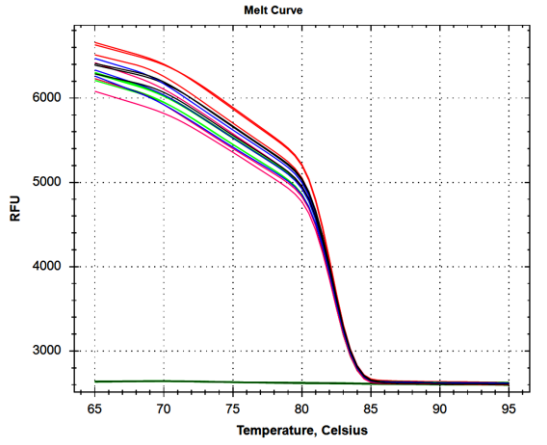

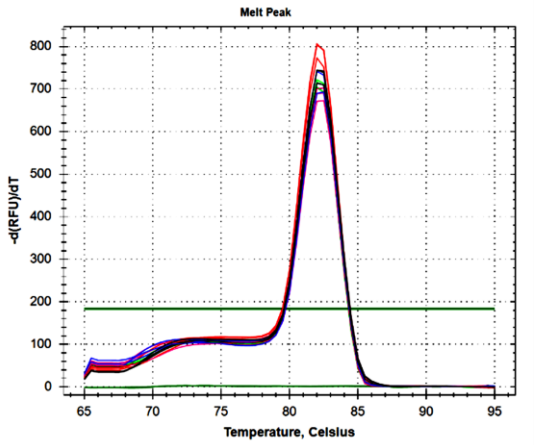

qPCR targeting a cDNA cloned in a plasmid DNA (1.0 ng - 0.1 pg) using the ***2x EpisoZYme qPCR Mix (***EZ-Q01)

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