



EliZyme™ OneS Super Probe MIX

Intended use:

For Research Use Only. Not for use in diagnostic procedures.

Storage:

Upon arrival store components at -20 °C. Avoid prolonged exposure to light. When stored under these conditions, the kit will retain full activity until the expiration date indicated on the kit label. Avoid exposure of the mix to frequent temperature changes and limit handling at room temperature to the necessary minimum.

Product description

EliZyme™ OneS Super Probe MIX is a powerful RT-qPCR mix that enables reliable detection of RNA and DNA target sequences through probe-based qPCR. This mix is provided in a one-tube format and offers superior target amplification, even from highly diluted samples, in both single and multiplex assays.

The all-in-one EliZyme™ OneS Super Probe MIX mix contains hot-start Taq polymerase, dNTPs, MgCl₂, an enhanced version of EliZyme™ Reverse Transcriptase, and EliZyme™ RiboProtect RNase inhibitor, which make it a complete 1-step RT-qPCR mix. It is compatible with different types of probes, including TaqMan®, Scorpions® and molecular beacons.

EliZyme™ OneS Super Probe MIX has been extensively optimized and tested against various nucleic target types, including common RNA viruses such as SARS-CoV-2, RSV, Influenza A, and B, as well as standard housekeeping genes like g-actin and GAPDH, and DNA targets. This mix is suitable for both diagnostic and basic research purposes.

Content

| | Ref. No. | Content | Size |
|---------------------|----------|---------------|-----------|
| EliZyme™ OneS Super | EZ1701 | 1×0.5 ml mix | 100 rxns |
| Probe Kit | EZ1707 | 2×1.75 ml mix | 700 rxns |
| | EZ1714 | 1×7 ml mix | 1400 rxns |

Primers

Primers should have a predicted melting temperature of around 60 °C. The shorter the amplicon length, the faster the reaction can be cycled. The recommended amplicon length should be between 80 bp and 200 bp. Amplicon length should not exceed 400 bp. For TaqMan® probes, choose a probe close to the 5' primer and avoid terminal guanosine residues.

Reaction setup

After thawing, briefly vortex the mix and shortly spin.



| Reagent | 20 µl reaction | Final conc. |
|-------------------------|---|-------------|
| 4x EliZyme™ OneS SP Mix | 5 µl | 1× |
| Forward primer (10 µM) | 0.8 µl | 400 nM |
| Reverse primer (10 µM) | 0.8 µl | 400 nM |
| Probe (10 µM) | 0.4 µl | 200 nM |
| Template RNA/DNA | <100 ng cDNA, < 1 µg genomic DNA, 1 pg – 1 µg total RNA, > 0.01 pg mRNA, 10 to 1×10 ⁸ copies viral RNA | Variable* |
| PCR grade water | Up to 20 µl | |

* Addition of sample as 2 to 5 µL volumes will improve assay precision.

PCR cycling profile

| Step | Temperature | Time | Cycles |
|-----------------------|-------------|-------------|--------|
| Reverse transcription | 52 °C | 5 – 20 min* | 1 |
| Polymerase activation | 95 °C | 3 min | 1 |
| Denaturation | 95 °C | 5 – 15 s | 40-50 |
| Annealing/Extension | 55 – 65 °C | 20 – 30 s | |
| Melt curve analysis** | | | |

* 5-10 minutes singleplex, 10-20 minutes multiplex.

** Optional, for hybridization probes only.

Manufacturer:

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Catalog number



Upper limit of temperature



Batch code



Manufacturer



Use by (last day of month)



Contains sufficient for "N" tests