



EliZyme™ OneS Probe Kit

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. Do not store the mix once it is combined with the RTase.

Product description

The EliZyme™ OneS Probe Kit is a probe kit suitable for rapid and highly specific RT-qPCR. It combines efficient cDNA synthesis and qPCR in a single tube, thanks to the latest advancements in reverse transcriptase technology and buffer chemistry. This universal kit is engineered to work with a wide range of probe technologies, including TaqMan®, Scorpions®, and molecular beacon probes, and is capable of quantifying any RNA template, such as mRNA, total RNA, and viral RNA sequences.

Designed to produce accurate results quickly over a broad range of template concentrations, the EliZyme™ OneS Probe Kit is particularly suitable for the detection of viral RNA. The kit features a highly active modified M-MLV reverse transcriptase (RTase) and advanced RNase inhibitor, which prevent RNA degradation by contaminating RNase. The antibody-mediated hot-start technology used in the kit prevents the formation of primer dimers and non-specific products, resulting in highly specific and ultra-sensitive RT-qPCR with unrivaled efficiency in multiplex.

The EliZyme™ OneS Probe Kit is compatible with most qPCR platforms, including standard and fast cycling conditions, and does not require the addition of ROX as a passive reference dye.

Content

	Ref. No.	Content	Size
EliZyme™ OneS Probe Kit	EZ7701	1×1 ml mix + 1×0.1 ml RTase	100 rxns
	EZ7707	7×1 ml mix + 1×0.7 ml RTase	700 rxns
	EZ7714	2×7 ml mix + 2×0.7 ml RTase	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.
2× EliZyme™ OneS Probe Mix	10 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
20× RTase	0.2–2 µl*	0.2–2×
Template RNA	1 pg–1 µg total RNA, > 0.01 pg mRNA, 10 to 1×10 ⁸ copies of viral RNA	Variable**
PCR grade water	Up to 20 µl	

* 0.2 µl is recommended for majority of applications, for more sensitive detection 1–2 µl can be used. It can improve Cq, however, it may increase primer-dimer formation.

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

PCR cycling profile

Step	Temperature	Time	Cycles
Reverse transcription	45–55 °C*	10 min	1
Polymerase activation	95 °C	2 min	1
Denaturation	95 °C	5 s	40
Annealing/Extension	60–65 °C**	20–30 s***	
Melt curve analysis****			

*55 °C for regions containing high secondary structures.

**Do not use temperatures below 60 °C.

***Do not exceed 30 s.

****Optional, for hybridization probes only.

Manufacturer:

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Catalog number



Batch code



Use by (last day of month)



Upper limit of temperature



Manufacturer



Contains sufficient for "N" tests