



EliZyme™ OneS Viral 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

EliZyme™ OneS Viral Probe Kit is a highly sensitive kit designed for 1-step RT-qPCR-based detection of viral RNA sequences. It is optimized in a high-concentration 4X mix, allowing for greater sample input and increased sensitivity even when small volume reactions are used.

This kit is engineered to work with a wide range of probe technologies, including TaqMan®, Scorpions®, and molecular beacon probes. It is compatible with multiplexing assays and can detect viral RNA sequences over a broad range of template concentrations, down to 4 copies per reaction (0.8 copies per µL).

The kit includes the thermostable EliZyme™ Reverse Transcriptase, which is blended with an advanced EliZyme™ RiboProtect to prevent RNA degradation by contaminating RNase. With antibody-mediated hot-start technology and smart screen buffer chemistry, EliZyme™ OneS Viral Probe Kit enables robust, reproducible, and high throughput detection of RNA viruses.

Content

	Ref. No.	Content	Size
EliZyme™ OneS Viral Probe Kit	EZ1801	1×0.5 ml mix + 1×0.1 ml RTase	100 rxns
	EZ1807	2×1.75 ml mix + 1×0.7 ml RTase	700 rxns
	EZ1814	1×7 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.
4× EliZyme™ OneS VP 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
20× RTase	1 µl	1×
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	

* 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



Batch code



Use by (last day of month)



Upper limit of temperature



Manufacturer



Contains sufficient for "N" tests