



EliZyme™ OneS Green 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 Green Kit is a one-tube solution for both cDNA synthesis and real-time PCR. It includes a modified M-MLV reverse transcriptase that is thermostable, highly active, and blended with an RNase inhibitor to protect RNA from degradation by contaminating RNase. This RTase can process total RNA, including ribosomal and transfer RNAs, making it ideal for quantification of mRNA, total RNA, and viral sequences.

The intercalating dye used in the kit does not inhibit real-time PCR, unlike other dyes, and antibody hot-start technology prevents primer-dimer formation and non-specific amplification, leading to improved reaction sensitivity and specificity. The kit is compatible with most real-time PCR platforms and has a low ROX concentration, making it suitable for fast and ultra-fast cycling conditions.

The EliZyme™ OneS Green Kit is designed for sensitivity and is ideal for detecting extremely low copy number targets, giving the earliest Cq and rapid and accurate results from high template concentrations. The advanced buffer chemistry and polymerase technology used in the kit result in market-leading performance with minimal optimization.

Content

	Ref. No.	Content	Size
EliZyme™ OneS Green Kit	EZ7601	1×1 ml mix + 1×0.1 ml RTase	100 rxns
	EZ7607	7×1 ml mix + 1×0.7 ml RTase	700 rxns
	EZ7614	2×7 ml mix + 2×0.7 ml RTase	1400 rxns

Primers

Primers should have a predicted melting temperature of around 60 °C. For efficient amplification under fast cycling conditions, we recommend amplicon lengths between 80 bp and 200 bp. The shorter the amplicon length the faster the reaction can be cycled.



Reaction setup

After thawing, briefly vortex the mix and shortly spin.

Reagent	20 µl reaction	Final conc.
2× EliZyme™ OneS Green Mix	10 µl	1×
Forward primer (10 µM)	0.8 µl	400 nM
Reverse primer (10 µM)	0.8 µl	400 nM
20× RTase*	1 µl	1×
Template RNA	10 pg–100 ng total RNA, > 0.01 pg mRNA	Variable
PCR grade water	Up to 20 µl	

*Add before template

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.

Manufacturer:

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Catalog number



Batch code



Use by (last day of month)



Upper limit of temperature



Manufacturer



Contains sufficient for "N"