



EliZyme™

ELIZYME ONES KIT

Advantages

- cDNA synthesis and PCR in a single tube
- RNase inhibitor
- Includes EliZyme HS FAST
- Hot-start technology
- Enzyme inactivation below 65 °C

Applications

- Reverse transcription
- Routine PCR
- Efficient and specific amplification from complex templates including GC-rich and AT-rich sequences
- Low copy number target genes
- Sanger sequencing

Availability

- Transcriptase with mix
- Mix contains $MgCl_2$, dNTPs and enhancers (additional $MgCl_2$ is not necessary; the buffer composition has been optimised to maximise PCR success rates)



ELIZYME ONES KIT

EliZyme Ones Kit includes components for efficient reverse transcription and PCR in a single tube. MMLV reverse transcriptase (RTase) is thermostable, highly active and has RNase inhibitor. The RTase is not inhibited by ribosomal and transfer RNAs.

The PCR is performed by **EliZyme HS FAST Taq DNA Polymerase**. The enzyme uses hot-start technology to inactivate the enzyme below 65 °C preventing primer-dimer formation and non-specific amplification from target sequences. The enzyme is inactivated until the initial activation step at 95 °C.

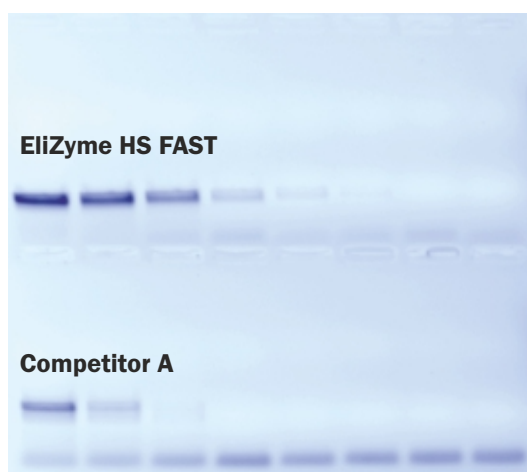


Figure A

Amplification of a 1.2 kb fragment of Beta-Actin under standard cycling conditions from human genomic DNA. Hot-start technology prevents primer-dimer formation. Primer extension redirects DNA polymerase activity from the amplicon of interest leading to reduced sensitivity in the PCR reaction. A 10 fold dilution series of template starting from 100 ng was used. **EliZyme HS FAST** is able to amplify lower concentration DNA template compared with competitor "A".

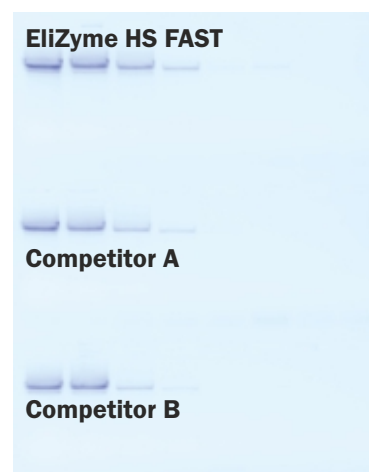


Figure B

Amplification of a 400 bp fragment of Beta-Actin under fast cycling conditions from human genomic DNA. Fast cycling conditions: initial denaturation at 95 °C for 2 minutes, 40 cycles of denaturation at 95 °C for 5 seconds, annealing/extension at 60 °C for 5 seconds. A 10 fold dilution series of template starting from 100 ng was used. **EliZyme HS FAST** performs significantly better than equivalent product from competitor "A" and equivalent product from competitor "B".

AVAILABLE KITS

	Ref. No.	Content	Pack Size
EliZyme Ones kit	EZ4505	1x1,25 ml mix + 1x0,125 ml transcriptase	50 rxns
	EZ4510	2x1,25 ml mix + 2x0,125 ml transcriptase	100 rxns
	EZ4550	2x6,25 ml mix + 1x1,25 ml transcriptase	500 rxns