



EliZyme™

ELIZYME FAST TAQ

Advantages

- Higher speed (with speed 1 s/kb)
- Higher yields under standard and fast PCR conditions
- Increased PCR success rates

Applications

- Routine PCR
- Efficient and specific amplification from complex templates including GC-rich and AT-rich sequences
- Sanger sequencing
- TA cloning

Availability

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



ELIZYME FAST TAQ

EliZyme FAST Taq is a robust enzyme system suited for routine PCR, amplification of DNA for Sanger sequencing and other genotyping applications.

The enzyme system is characterised by enhanced PCR speed, yield and specificity. **EliZyme FAST Taq** delivers exceptional PCR performance on complex templates, including GC-rich and AT-rich sequences. **EliZyme FAST Taq DNA Polymerase** has 5'-3' exonuclease activity but no 3'-5' exonuclease (proofreading) activity. The error rate is approximately 1 error per 2.0×10^5 nucleotides incorporated. PCR products generated with **EliZyme FAST Taq** are A-tailed and may be cloned into TA vectors.

For higher comfort is **EliZyme FAST Taq** also available as a 2x ready mix and as **EliZyme FAST Taq (no dNTP)**. **EliZyme FAST Taq MIX Red** contains a red dye for tracking during agarose gel electrophoresis. It is suitable for direct loading onto agarose gel.

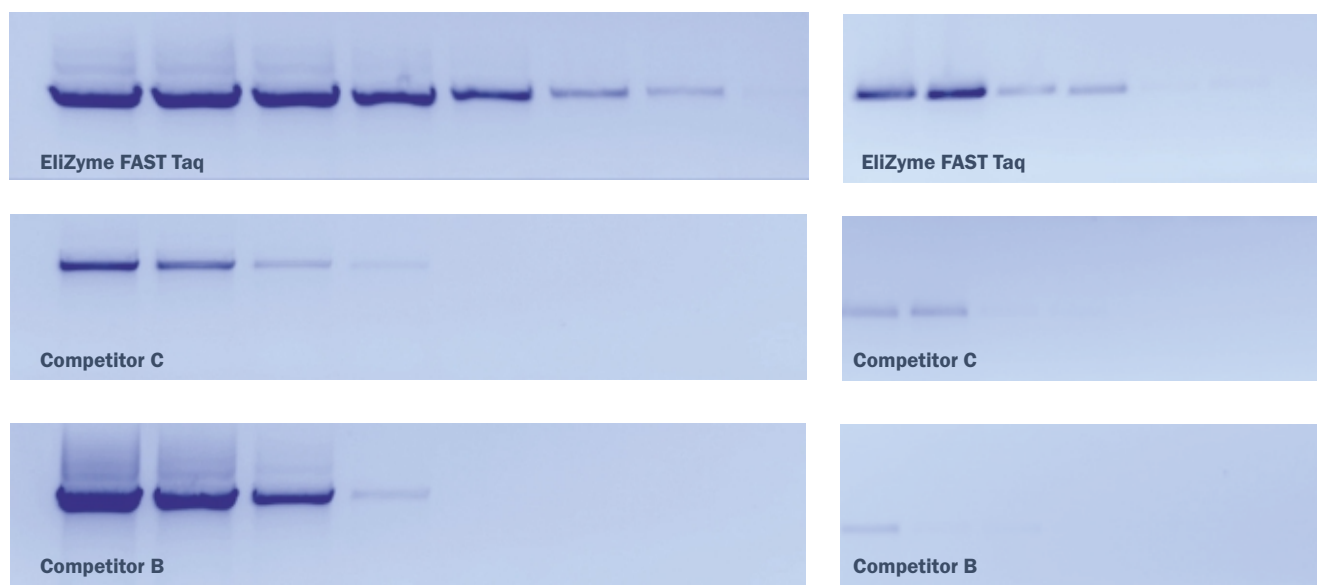


Figure A

Amplification of a 1.1 kb fragment of 60 % GC GAPDH from human genomic DNA. A 3 fold dilution series of template starting from 200 ng was used. The final dilution is 0,8 pg. **EliZyme FAST Taq** is able to amplify lower concentration DNA template compared with competitor "C" and competitor "B"

Figure B

Amplification of the same 1.1 kb fragment of 60 % GC GAPDH 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 30 seconds. A 3 fold dilution series of template starting from 200 ng was used. Under fast conditions **EliZyme FAST Taq** is able to amplify lower concentration DNA template compared with competitor "C" and competitor "B".

AVAILABLE KITS

	Ref. No.	Content	Pack Size
EliZyme FAST Taq	EZ5005	1x0,1 ml 5 U/ μ l + 4x1 ml buffer	500 U
	EZ5010	2x0,1 ml 5 U/ μ l + 1x8 ml buffer	1000 U
	EZ5020	4x0,1 ml 5 U/ μ l + 2x8 ml buffer	2000 U
EliZyme FAST Taq (no dNTP)	EZ1010	1x0,2 ml 5 U/ μ l + 2x1,5 ml buffer	1000 U
	EZ1020	2x0,2 ml 5 U/ μ l + 4x1,5 ml buffer	2000 U
	EZ1040	4x0,2 ml 5 U/ μ l + 2x6 ml buffer	4000 U
EliZyme FAST Taq MIX	EZ5220	5x1 ml mix	200 rxns
	EZ5260	2x7,5 ml mix	600 rxns
EliZyme FAST Taq MIX Red	EZ5120	5x1 ml mix	200 rxns
	EZ5160	2x7,5ml mix	600 rxns