



ELIZYME HS ROBUST

Advantages

- Hot-start technology
- Enzyme inactivation below 65 °C
- Increased PCR success rates with amplicons up to 35 kb
- Inhibitor tolerant PCR from crude samples
- Higher yields under standard and fast PCR conditions

Applications

- Long range PCR
- Extremely difficult templates
- Crude sample 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 MgCl₂, dNTPs and enhancers. (additional MgCl₂ is not necessary; the buffer composition has been optimised to maximise PCR success rates)
- Ready Mix
- Ready Mix with loading dye



ELIZYME HS ROBUST

EliZyme HS Robust is developed for the amplification of extremely difficult templates. Exceptional performance is delivered by higher processivity and hot-start technology. **EliZyme HS Robust** enables amplification of templates that are GC-rich and AT-rich or with PCR inhibitors. Amplification is achievable up to 35 kb.

The enzyme is inactivated below 65 °C preventing primer-dimer formation and non-specific amplification from target sequences. DNA polymerase in **EliZyme HS Robust** is inactivated until the initial activation step at 95 °C.

The enzyme system is characterised by enhanced PCR speed, yield and specificity. **EliZyme HS Robust** delivers exceptional PCR performance on complex templates including GC-rich and AT-rich sequences. **EliZyme HS Robust Polymerase** has error rate approximately 1 error per 5.0×10^5 nucleotides incorporated. PCR products generated with **EliZyme HS Robust** are A-tailed and may be cloned into TA vectors.

For higher comfort is **EliZyme HS Robust** also available as a 2x ready mix. **EliZyme HS Robust MIX Red** contains a red dye for tracking during agarose gel electrophoresis. It is suitable for direct loading onto agarose gel.

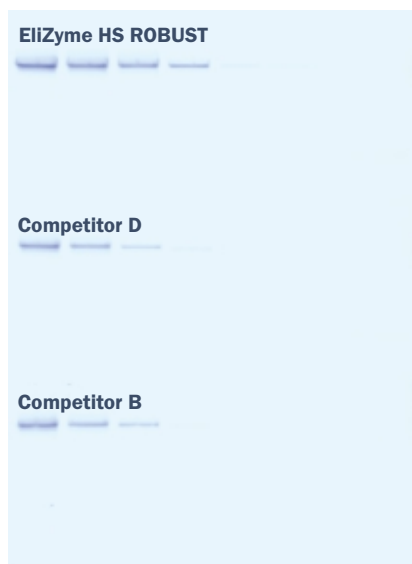


Figure A

Amplification of a 27 kb fragment of the p53 gene region from human genomic DNA. A 2 fold dilution series of template starting from 200 ng was used. **EliZyme HS ROBUST** detects as low as 3 pg, which is lower than equivalent products from competitors "D" and "B".

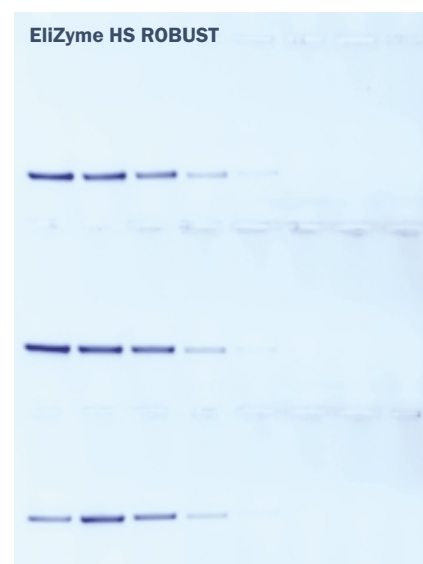


Figure B

Amplification of regions of the FRA16A gene from human genomic DNA including different numbers of CCG repeats. A 2 fold dilution series of template starting concentration from 100 ng was used. The top run shows 32 CCG repeats, the second run 48 and the bottom run 62. The PCR reactions display consistent results on different complexities of human genomic DNA.

AVAILABLE KITS

	Ref. No.	Content	Pack Size
EliZyme HS ROBUST	EZ5805	1x0,1 ml 5 U/μl + 4x1 ml buffer	500 U
	EZ5810	2x0,1 ml 5 U/μl + 1x8 ml buffer	1000 U
	EZ5820	4x0,1 ml 5 U/μl + 2x8 ml buffer	2000 U
EliZyme HS ROBUST MIX	EZ6008	2x1 ml mix	80 rxns
	EZ6016	1x1 ml mix	160 rxns
	EZ6060	2x7,5 ml mix	600 rxns
EliZyme HS ROBUST MIX Red	EZ5908	2x1 ml mix	80 rxns
	EZ5916	4x1 ml mix	160 rxns
	EZ5960	2x7,5 ml mix	600 rxns