PCRBIO **Taq Mix Red**

- Load directly onto agarose gels
- Fast and standard cycling
- High yields

Features

- Red mix for direct loading onto agarose gels
- Increased PCR success rates with amplicons up to 6kb
- Ultra low background DNA
- Advanced buffer chemistry including Mg and dNTPs
- High yields under standard and fast PCR conditions
- Efficient specific amplification from complex templates including GC rich and AT rich sequences
- Stable at 25˚C and 37˚C for 4 weeks

Applications

- Routine application PCR
- TA cloning
- High throughput PCR
- Methylated DNA
- Crude sample PCR
- Standard and fast PCR
- Specific amplification from complex templates (eg GC/AT rich)

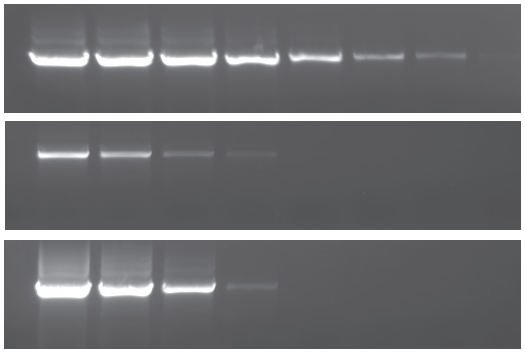

Figure 1.

Shows amplification of a 1.2kb fragment of 60% GC GAPDH, from human genomic DNA, in a 3 fold dilution from left to right. The starting concentration is 200ng of DNA and is diluted to 0.7pg in the 7th dilution. PCRBIO Taq DNA Polymerase (row 1) is able to amplify lower concentration template DNA compared with competitor P and I (rows 2 and 3).

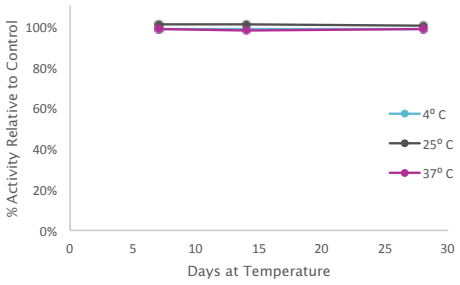

Figure 2.

Shows no change in activity is detected in PCRBIO Taq Mix Red after 28 days at 4˚C, 25˚C and 37˚C.

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simplifying research

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PCRBIO Taq Mix Red uses the latest developments in polymerase technology and buffer chemistry to enhance PCR speed, yield and specificity. The enzyme and buffer system allow for superior PCR performance on complex templates such as mammalian genomic DNA.

PCRBIO Taq Mix Red is powered by PCRBIO Taq DNA Polymerase - a robust enzyme for all your everyday PCR applications including genotyping, screening and library construction. PCRBIO Taq Mix Red is room temperature stable for 4 weeks and has the added convenience of a preloaded red dye suitable for direct loading and tracking during agarose gel electrophoresis.

PCRBIO Taq DNA Polymerase performs consistently well on a broad range of templates (including both GC and AT rich). The enzyme has 5'-3' exonuclease activities with the same error rate as wild-type taq DNA polymerase, approximately 1 error per 2.0 x 10^5 nucleotides incorporated. PCRBIO Taq DNA Polymerase production uses an enhanced 12 step purification strategy which includes physical, chemical and enzymatic removal of host DNA. PCR products are A-tailed and may be cloned into TA cloning vectors.

PCRBIO Taq Mix Red provides the research community with a convenient, affordable and versatile routine application master mix that allows you to amplify with the highest speed, yield, specificity and consistency on the market.

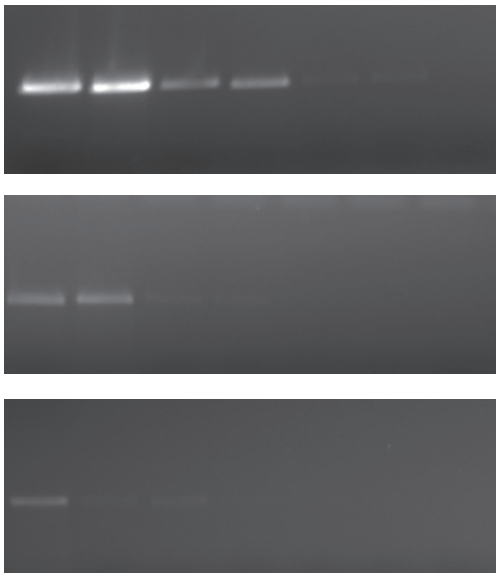

Figure 3.

Shows amplification of the same 1.2kb fragment of 60% GC GAPDH in a 3 fold dilution from left to right as in figure 1. Fast cycling conditions are used of 5 secs denaturation and 30 secs annealing/extension. Under fast conditions PCRBIO Taq DNA Polymerase (row 1) is able to amplify lower concentration template DNA compared with competitor P and I (rows 2 and 3).

Catalogue Number	Product Name	Pack Size	Presentation
PB10.13-02	PCRBIO Taq Mix Red	200 Reactions	5 x 1ml
PB10.13-10		1000 Reactions	5 x (5 x 1ml)

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