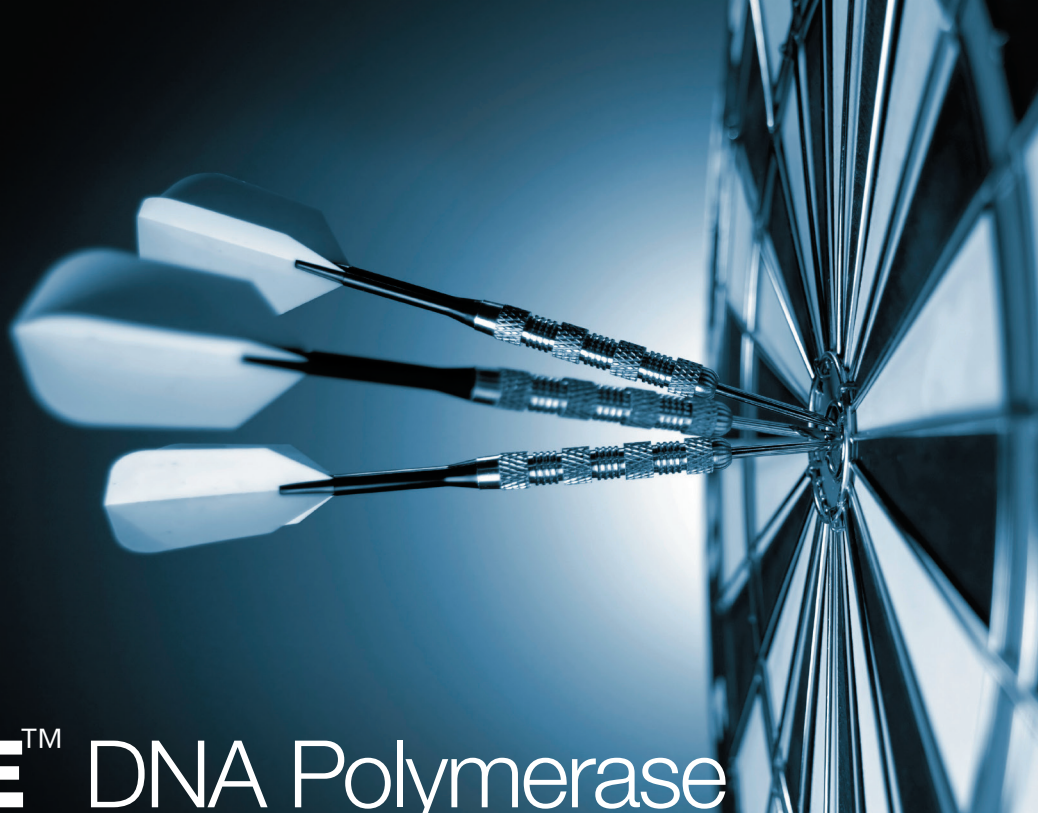


Results on target



ACCUZYME™ DNA Polymerase

- **Very high yield**
- **High-fidelity coupled with robust activity**
- **Amplifies fragments up to 5kb**
- **Produces blunt ends**

ACCUZYME™ is a highly optimized DNA Polymerase ideally suited to PCR amplification reactions of fragments up to 5kb in size, even with demanding applications (Fig. 1). ACCUZYME provides high fidelity with an error-rate of 3.0×10^{-6} , to give blunt-ended products. In addition, ACCUZYME possesses higher processivity than most commercially available proofreading enzymes.

ACCUZYME is supplied with 10x Reaction Buffer containing MgSO_4 , which provides optimal final reaction conditions (1.5mM Mg^{2+}) for most experiments. In order to allow optimization of reaction conditions, additional MgCl_2 is provided.

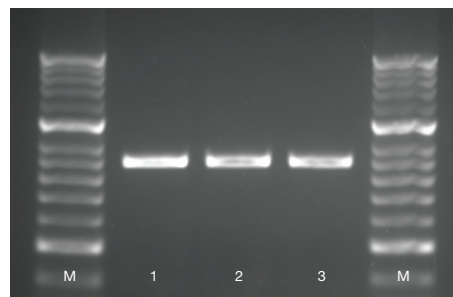


Fig. 1 ACCUZYME performs in demanding applications. Colony PCR was performed using 2.5 Units of ACCUZYME DNA Polymerase (lanes 1-3): A single bacterial colony was picked and incubated in water at 99°C for 2 minutes, then used directly as the template. PCR was performed in $50\mu\text{l}$ reaction mixtures containing 2.5mM MgCl_2 . HyperLadder 50bp (M). ACCUZYME provided consistent high yield and clean product across all replicates.

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ACCUZYME™ DNA Polymerase

ACCUZYME™ Mix

ACCUZYME Mix is a convenient pre-mixed and pre-optimized 2x preparation designed for sensitive (Fig. 2) and reproducible results time after time. Every ready-to-use reaction mix contains ACCUZYME, MgCl₂ and Bioline ultra-pure dNTPs; the user adds only water, template and primers.

Recommended for high-throughput, ACCUZYME Mix dramatically reduces the time needed to set up experiments, thereby minimizing the risk of contamination. Greater reproducibility is ensured by reducing the number of pipetting steps that can lead to erroneous results.

ACCUZYME applications

The various ACCUZYME formulations are ideal for applications such as high fidelity PCR for subsequent cloning, blunt-end cloning and general end-point PCR amplification reactions of fragments up to 5kb in size.

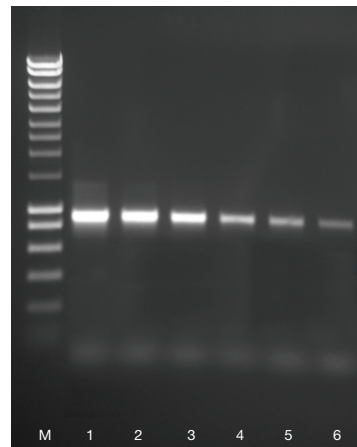


Fig. 2 High performance with ACCUZYME Mix even at low template concentrations. An 800bp fragment from human genomic DNA was amplified using 25µl of 2x ACCUZYME Mix. The fragment was amplified from 0.5ng human genomic DNA (lane 1) followed by a 10-fold serial dilution series of template (lanes 2-6). PCR was performed in 50µl reaction mixtures containing 2.5mM MgCl₂. Marker is HyperLadder 1kb(M).

Ordering Information

PRODUCT	PACK SIZE	CAT NO.
ACCUZYME DNA Polymerase	250 Units	BIO-21051
ACCUZYME DNA Polymerase	500 Units	BIO-21052
ACCUZYME Mix	500 Reactions	BIO-25028

Note: ACCUZYME and HyperLadder are trademarks of Bioline Reagents Ltd.

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