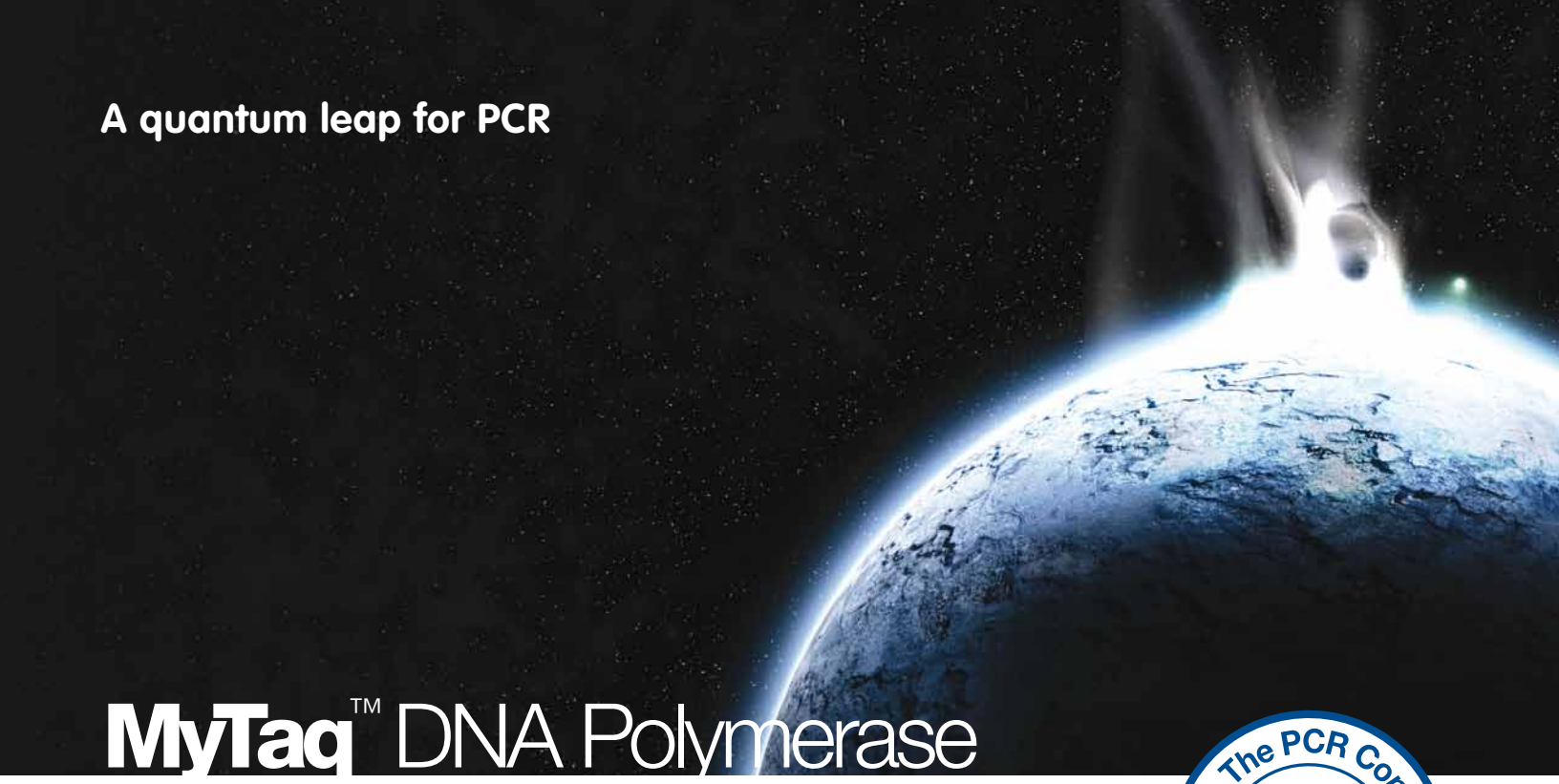

A quantum leap for PCR

MyTaq™ DNA Polymerase

- **New generation polymerase with superior performance**
- **Novel buffer system, with ultra-pure dNTPs and $MgCl_2$**
- **Robust and high yield across a full range of templates**
- **Convenient all-in-one master mix**
- **Direct gel loading**

The MyTaq™ product range is a new generation of very high performance PCR products developed by Bioline. Designed to deliver outstanding results on all templates, including complex genomic DNA templates, MyTaq is based on the latest technology in PCR enzyme preparation engineered to increase affinity for DNA, so resulting in significant improvements to yield, sensitivity and speed. The enzyme is supplied with an industry-leading novel buffer system, specifically formulated and validated for the unique properties of MyTaq, making it the perfect choice for all of your PCR assays.

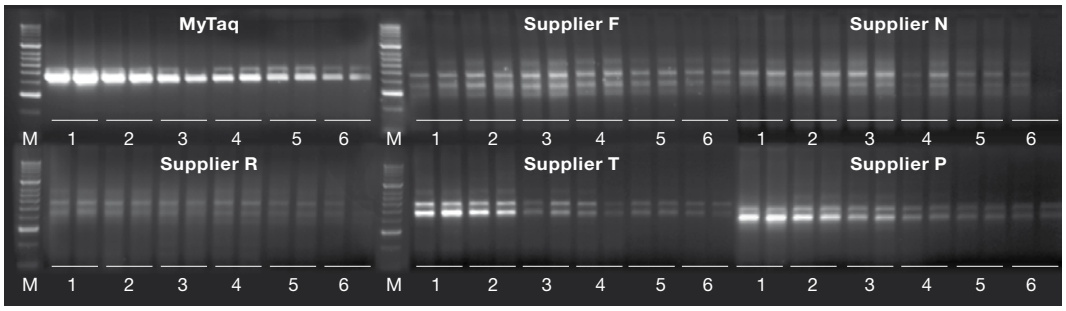

Fig. 1 Robust amplification of GC-rich human genomic DNA (61% GC content)
MyTaq was compared with DNA polymerases from other suppliers for the amplification of a 450bp fragment of the human *myc* gene. Decreasing amounts of human genomic DNA were used as a template (1µg, 200ng, 100ng, 50ng, 25ng and 12.5ng; lanes 1-6 respectively) in the PCR. The cycling was performed under the following conditions: 95°C for 5 min, followed by 30 cycles at 95°C for 30s, 60°C for 30s and 72°C for 50s. Marker is HyperLadder I (M) (Cat No. BIO-33025). MyTaq delivers higher yield and sensitivity as compared with all five competing products.

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BIOLINE
A Meridian Life Science® Company

MyTaq™ DNA Polymerase

MyTaq - Full range of templates

MyTaq is a high performance polymerase which exhibits more robust amplification than other commonly used polymerases (fig. 1). MyTaq offers higher yields over a full range of PCR templates, making it the ideal choice for most routine assays. This new enzyme from Bioline is supplied with the MyTaq buffer system, a proprietary formulation containing ultra-pure dNTPs, $MgCl_2$ and enhancers at optimal concentrations; removing the need for optimization and giving superior amplification.

MyTaq - For all applications

This new generation DNA polymerase from Bioline has been validated with a full range of templates and is perfectly suited for the following applications:

- Routine PCR applications
- Specific amplification of complex templates
- High-throughput PCR
- TA cloning
- Robust amplification of GC-rich sequences

MyTaq - For faster PCR reactions

The advanced formulation of MyTaq allows faster PCR reactions than other conventional polymerases, thus reducing the overall time from over an hour to less than thirty minutes and most importantly, without compromising PCR specificity or yield (fig. 2). Reducing the reaction time allows greater throughput and faster screening.

MyTaq - Direct gel loading

MyTaq is also supplied as MyTaq Red DNA Polymerase, which includes a 5x colored reaction buffer with an inert red dye. Following PCR, samples can be loaded directly onto the agarose gel without the need for a loading buffer, since the mix is of sufficiently high density to sink to the bottom of the well.

MyTaq - Premixes to simplify PCR set-up

MyTaq 2x Mix and MyTaq Red 2x Mix contain all the reagents necessary for setting up a trouble-free PCR reactions. These novel mixes, supplied conveniently in one tube, reduce the number of pipetting steps and facilitate greater efficiency, throughput and reproducibility.

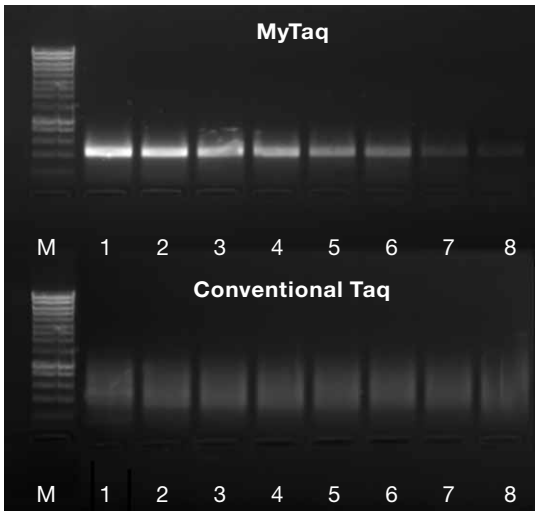

Fig. 2 Fast amplification of human genomic DNA (performed in 27.5 minutes) Comparative amplification of a 450bp fragment of the human *myc* gene (61% GC) was used to compare MyTaq with a conventional *Taq* DNA polymerase. The PCR was performed with both enzymes using decreasing amounts of human genomic DNA as template (200ng, 66ng, 10ng, 3ng, 1ng, 300pg, 100pg and 30pg; lanes 1-8 respectively) and under the following fast cycling conditions: 95°C for 3 min, followed by 30 cycles at 95°C for 15s, 60°C for 15s and 72°C for 15s. Marker is HyperLadder I (M) (Cat No. BIO-33025). In contrast to conventional Taq, MyTaq readily copes with faster reactions times, resulting in higher yield without the need for further optimization.

Ordering Information

PRODUCT	PACK SIZE	PRESENTATION	CAT NO.
MyTaq DNA Polymerase	500 Units	1 x 100µl	BIO-21105
MyTaq DNA Polymerase	2500 Units	2 x 250µl	BIO-21106
MyTaq DNA Polymerase	5000 Units	4 x 250µl	BIO-21107
MyTaq Red DNA Polymerase	500 Units	1 x 100µl	BIO-21108
MyTaq Red DNA Polymerase	2500 Units	2 x 250µl	BIO-21109
MyTaq Red DNA Polymerase	5000 Units	4 x 250µl	BIO-21110
MyTaq Mix, 2x	200 Reactions	4 x 1.25ml	BIO-25041
MyTaq Mix, 2x	1000 Reactions	20 x 1.25ml	BIO-25042
MyTaq Red Mix, 2x	200 Reactions	4 x 1.25ml	BIO-25043
MyTaq Red Mix, 2x	1000 Reactions	20 x 1.25ml	BIO-25044

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