



End-Point PCR Applications



Azura Taq DNA Polymerase and 2x Mix

Azura Taq DNA Polymerase is engineered with additional hydrophilic residues for improved solubility and increased affinity for template DNA, resulting in significantly improved activity, yield, speed and sensitivity when compared with wild-type *Taq* Polymerase.

The polymerase is supplied with a new generation 10x buffer system (containing optimal levels of dNTPs, MgCl₂ and enhancers) specifically formulated for the unique properties of Azura Taq, making it the ideal choice for a wide variety of assay conditions.

Azura 2x Taq Mix is a ready-to-use single tube formulation optimized for convenience and reduced pipetting steps. The highly advanced Azura 2x Taq Mix chemistry allows fast cycling conditions to be used with greater efficiency, reproducibility and throughput.

Applications

- High-throughput PCR
- Genotyping
- Colony PCR
- Fast PCR

Universal

- Robust amplification across a wide range of templates and sequence complexity

Convenience of Minimal Optimization

- 5x buffer system including MgCl₂ and PCR enhancers

Flexibility

- Available as ready-to-use 2x Taq Mix and 2x Taq Red Mix for reduced pipetting and improved sample throughput

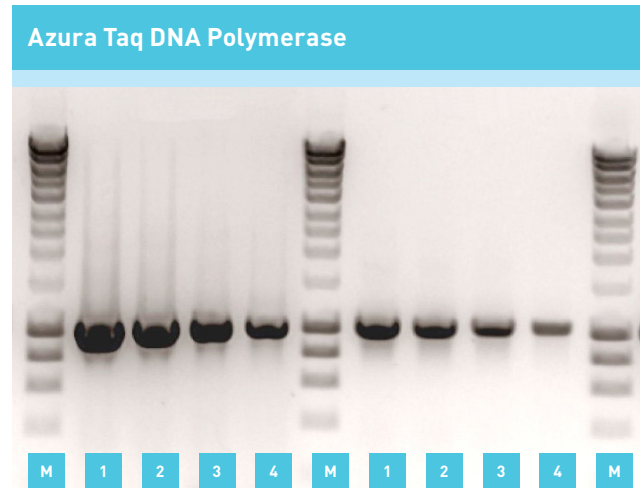


Fig 1. Superior Sensitivity and DNA yield with Azura™ Taq Mix

- Azura™ Taq Mix was compared with an alternative Taq Polymerase Mix (GoTaq® G2) for amplification efficiency and yield (710bp fragment containing 56% GC content). Left Panel - Azura™ Taq Mix with decreasing amounts of human genomic DNA (500ng, 250ng, 125ng, and 62.5ng). Right Panel - Comparative data using GoTaq® G2 Mastermix.

In addition, the ready-to-use mix is available with an inert red dye which allows samples to be loaded directly onto agarose gels without additional gel loading buffers. Azura 2x Taq Red Mix is sufficiently dense to sink to the bottom of the wells.

Products	Pack Size	Catalog No.	Price
Azura Taq DNA Polymerase	500u (5u/μl)	AZ-1205	\$75
Azura Taq DNA Polymerase	1000u (5u/μl)	AZ-1210	\$120
Azura Taq DNA Polymerase	5000u (5u/μl)	AZ-1250	\$515
Azura 2x Taq Mix	200 x 50μl Reactions	AZ-1302	\$85
Azura 2x Taq Mix	1000 x 50μl Reactions	AZ-1310	\$355
Azura 2x Taq Red Mix	200 x 50μl Reactions	AZ-1322	\$85
Azura 2x Taq Red Mix	1000 x 50μl Reactions	AZ-1325	\$355