DTI FabTaq & DTI FabTaq HS

Made in India

DTI FabTaq

DTI FabTaq DNA Polymerase is a recombinant version Taq polymerase derived from the Thermus aquaticus YT-1 strain, and is suitable for routine PCR applications.
For individual reaction setup and optimization, use individual components of enzyme, dNTP mixture, and 10X reaction buffer (with or without Mg2+). A convenient 2X PCR master mix of Takara Taq enzyme, buffer, and dNTP mixture is available as Premix Taq DNA Polymerase.

Application

- Routine PCR
- DNA sequencing

- Excellent for standard PCR amplifications.
- Low bacterial DNA contamination.
- Premix Taq enables easy PCR setup and minimizes pipetting steps

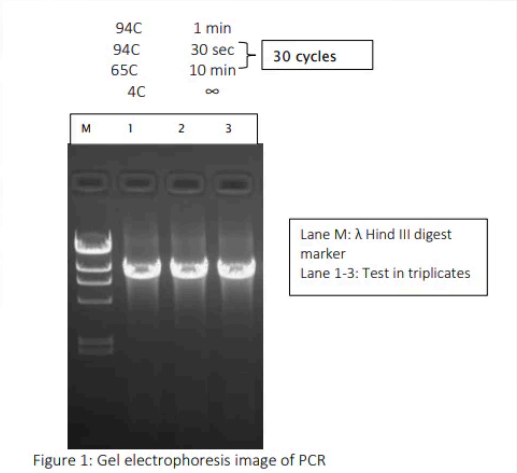

Figure 1: Gel electrophoresis image of PCR

Amplification consistency of 8 kb DNA fragment
Consistent amplification of 8 kb fragment from λ DNA is observed using the DTI FabTaq. The

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Why Choose DTI Brand ?

DTI is our new in-house brand, we are manufacturing products in India, where we can design products for you and deliver them to you at affordable prices.

ISO 9001 certification

Quick Turn around time

Affordable Price

Strict temperature Control

Product customization

DTI FabTaq HS

An antibody-mediated hot-start version of DTI FabTaq Polymerase, which is a recombinant version of full-length Taq polymerase. It has the same characteristics and capabilities as the native Taq polymerase, and is suitable for a variety of standard PCR applications. The polymerase is supplied with separate tubes of buffer (Mg2+ plus) and dNTPs.

Application

- Hot-start PCR
- Multiplex PCR

Comparison with a standard Taq DNA polymerase

The performance of DTI FabTaq HS in a multiplex reaction was compared to its performance in single-target reactions, and to that of the standard DTI Fab Taq DNA Polymerase in a multiplex reaction (Figure 1). DTI FabTaq and DTI FabTaq HS were each used to amplify a human genomic DNA template with eight different primer pairs, each specific for a target ranging from 84 to 432 bp in size. In addition, Takara HS Taq was used to perform an individual amplification reaction with each of the eight primer pairs.

The sample amplified using DTI FabTaq HS (Lane 10) shows more efficient multiplex amplification of all the bands individually amplified in Lanes 1–8 than the sample amplified using DTI FabTaq(Lane 9), and it lacks the low molecular weight non-specific amplification band seen with DTI FabTaq (Lane 9). The intensities of the bands in Lane 10 are comparable to the intensities of the corresponding individual bands in Lanes 1–8, indicating that DTI FabTaq HS provides multiplex efficiencies comparable to those observed in individual amplification reactions.

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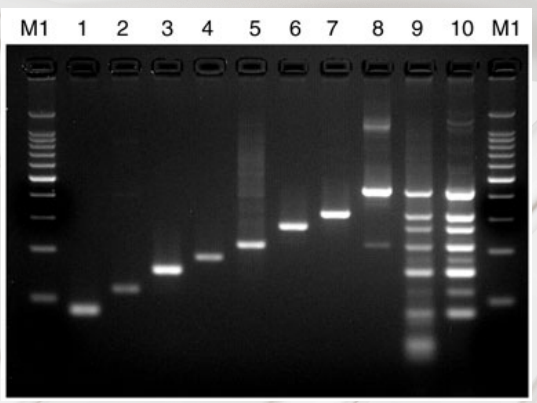
Comparing the ability of DTI FabTaq HS to amplify human genomic DNA fragments to that of the standard Taq DNA Polymerase. PCR reactions were performed using human genomic DNA as a template and primer pairs for eight different targets. Lanes 1–8 contain individual reactions for each primer pair amplified using DTI FabTaq HS. Lanes 9 and 10 contain multiplex PCR reactions performed with all eight primer pairs in a single tube, amplified with either the standard Taq DNA polymerase (Takara Taq, Lane 9) or DTI FabTaq HS (Lane 10).



Product	Cat. No.	Pack size
DTI FabTaq	DT0101.250	250 Reactions
	DT0101.500	500 Reactions
	DT0101.1K	1000 Reactions
DTI FabTaq HS	DT0102.250	250 Reactions

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