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DATA SHEET

Version: 2
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1. Identification

Product name **Anti-Taq Polymerase (Monoclonal Mouse Antibody)**
250 uL

Cat. No **P0028-ATMAB**

2. Description

DNA polymerase I from Thermus aquaticus (Taq polymerase) is the most famous representative enzyme among the thermostable DNA polymerases. Anti-Taq-Polymerase is a highly purified neutralization monoclonal antibody to Taq DNA polymerase. The antibody binds to Taq DNA polymerase and arrests Taq's activity. Under the ambient temperature throughout PCR reaction assembly and handling, non-specific priming can happen, but no polymerization can occur as the Taq DNA polymerases are inactivated. The antibody-mediated hot start method is significantly more convenient to use than other hot start methods.

3. Composition

Item	Quantity
Anti -Taq Polymerase (Monoclonal Mouse Antibody)	250 µL

4. Specifications

Host species (Source): Mouse
Clone: TQ01
Isotype: IgG_1
Immunogen: Specific for Taq Polymerase protein
Presentation: PBS (pH 7.4), 0.09% Sodium Azide.
Concentration: 3-5 mg/ml
Purity: More than 95% by SDS-PAGE.

5. Features

- Anti-Taq (monoclonal antibody to Taq DNA polymerase) inhibits the reaction of Taq DNA Polymerases at room temperature.
- Prevent primer dimer.
- Enhance specificity and yield.

6. Storage specifications

Store at -20° C.

7. Applications

- Antibody-mediated hot start PCR.

8. Protocol

Mix the antibody and Taq DNA polymerase and incubate this mixture at room temperature for 10 – 15 minutes; then use this mixture in PCR by following the normal protocol of the Taq DNA polymerase that is being used in the experiment.

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Recommended ratio: 80 ng of anti-Taq monoclonal antibody per unit of Taq DNA polymerase. The required antibody volume must be calculated according to the antibody concentration stated for each lot. Optimization may be required depending on the Taq DNA polymerase preparation and the intended PCR conditions.

You must find the optimized mixture empirically and for every new lot of polymerases. Note that the amount of antibodies required for Taq polymerase activity inhibition depends not on the units of the enzyme, rather the amount of Taq polymerase as protein.

9. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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