Add Taq DNA Master (2x conc.)

Product Information

Product Code 35001

Provided with Add Taq DNA Master (2x conc.) 1.0 mL x 5 tubes

Storage Conditions -10°C ~ -30°C

Stability Stable for 2 years from manufacturing date.

Components of Add Taq DNA Master (2x conc.)

Add Taq DNA Polymerase, Tris-HCl (pH8.8), Potassium Chloride, Ammonium Sulfate, $MgCl_2$, Protein stabilizer, sediment, loading dye (Orange G) and dNTP mixture.

Description

Add Taq DNA Master (2x conc.) is a ready-to-use mixture with Add Taq DNA Polymerase, reaction buffer with $MgCl_2$, dNTPs, sediment and loading dye (Orange G) for PCR and electrophoresis.
The molecular weight of the recombinant protein is 94kD. Add Taq DNA polymerase catalyzes the 5′ →3′ synthesis of DNA but has no detectable 3′ →5′ proofreading exonuclease activity, and possesses low 5′ →3′ exonuclease activity, which results in a 3′-dA overhang on the PCR product. Normal maximum amplicon size is ~5kb and the polymerization rate is 1 kb per 1 min., but maximum rate is 2 kb per 1 min.

Applications

- General PCR
- Colony PCR
- Screening PCR
- Cloning

Nucleic Acid Amplification Procedure

1. Add the following components to a thin-walled PCR tube:

Nuclease-Free Water	x µl
Add Taq DNA Master (2x conc.)	10 µl
Forward primer (10 µM)	0.25 ~ 2 µl
Reverse primer (10 µM)	0.25 ~ 2 µl
DNA template	x µl
Total reaction volume	20 µl

* Recommendation of template DNA concentration in a 20 µl reaction volume
1) Human genomic DNA: 0.1 ng ~ 1 µg
2) Bacterial, Plant genomic DNA: 0.1 ng ~ 100 ng
3) Plasmid DNA: 0.01 ng ~ 5 ng

2. PCR cycling

Initial denaturation	95°C, 5 min
PCR cycling (25 - 40 cycles)	95°C, 15 - 30 sec
	55 - 65°C, 15 - 30 sec
	72°C, 30 - 60 sec
Final extension	72°C, 5 min
Hold	12°C, ∞

Manufacture

애드바이오메디텍
www.addbiomeditek.com / addbiomeditek@addbiomeditek.com