

Add Taq Master (2x Conc.)

Research Use Only

Product Code

35001

Component

1. Add Taq Master (2x conc.) 1.0 ml

Storage Condition

Store at -20°C

Description

Add Taq Master is supplied as a 2x concentrated master mixture type containing all the reagents needed to perform PCR.

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.

Components of Add Taq Master as 2x conc.

20mM Tris-HCl (pH8.8), 100mM KCl, 0.2% Triton® X-100, 4mM MgCl₂. Protein stabilizer, sediment, loading dye and 0.5mM each of dATP, dCTP, dGTP, and dTTP

Storage and Stability

Add Taq Master (2x conc.) is stable for 2 years when stored in a constant temperature freezer at less than -20°C.

Nucleic Acid Amplification Protocol

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

Nuclease-Free Water	x μ l
Add Taq Master (2x conc.)	10 μ l
Forward primer (10 μ M)	0.25~2.0 μ l
Reverse primer (10 μ M)	0.25~2.0 μ l
DNA template	x μ l
Total reaction volume	20 μ l

* Recommendation for template DNA concentration in a 20 μ l reaction volume

- 1) Human genomic DNA: 0.1 ng ~ 1 μ g
- 2) Bacterial genomic DNA: 0.1 ng ~ 100 ng
- 3) Plasmid DNA: 0.01 ng ~ 5 ng

2. PCR cycling

Initial Denaturation	95°C, 5 min
	95°C, 15 – 30 sec
PCR Cycling (25 – 40 cycles)	55 - 65°C, 15 – 30sec
	72°C, 30 sec per kb of product length
Final Extension	72°C, 5 min
Hold	12°C, ∞