

## Taq DNA Polymerase with Standard Buffer (- dNTPs)

Product code   02-011   200 U   02-011-5   200 U x 5
Concentration   5 U/μ
Concentration         5 U/μl           Product         Thermus aquaticus DNA polymerase (Taq DNA polymerase) was expressed in E. coli in large quantities and highly purified. The enzyme has thermostable DNA polymerase activity and the MW is 94 kDa. This enzyme is suitable for PCR reactions; capable of amplifying DNA with various primers.           Definition of activity         One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTPs into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA was used as template / primer.           Purity         Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1)
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5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends
General composition of PCR reaction mixture (total 50μl)
Taq DNA polymerase (5 U/μl) (02-Taq) — ※0.25 μl 10x Standard Buffer (Taq) (02-Tsd) — 5 μl
2.5mM (each) dNTPs (02-Dnt) 4 μl Template <500 ng
Primer 1 0.2~1.0 mM (final conc.)
Primer 2 0.2~1.0 mM (final conc.) Sterile distilled water up to 50 μl
We use of excess amount is not recommended.
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Related product 02-001 Taq DNA Polymerase with Standard Buffer (+dNTPs)
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## Data Images: 02-011 Taq DNA Polymerase with Standard Buffer (- dNTPs)

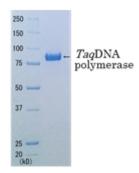


Fig.1 SDS-PAGE of TaqDNA polymerase

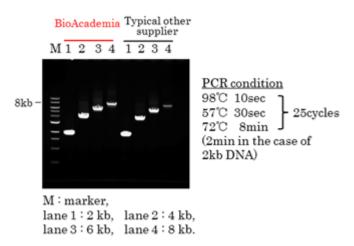


Fig.2 Amplification of  $\lambda$ DNA