

Pro Taq Plus DNA Polymerase

Certificate of Analysis

Cat No : PT-526

Size : 500 units

Concentration : 5 units/ μ l

Volume : 100 μ l

Unit Definition :

One unit is the amount of enzyme that will convert 10 nmoles of dNTPs into acid-insoluble form in 30 minutes at 70°C under that stated assay.

Assay Conditions :

10 mM Tris-HCl (pH 9.0)(25°C), 50 mM KCl, 1.5 mM MgCl₂, 0.1% (w/v) gelatin, 1% Triton X-100 incubate at 72°C

Storage Buffer :

50 mM Tris-HCl (pH 8.0), 1 mM EDTA, 1 mM DTT, 50% (v/v) glycerol.

Reaction Buffer :

10X Buffer contains : 100 mM Tris-HCl (pH 9.0), 500 mM KCl, 0.1% (w/v) gelatin, 15 mM MgCl₂, 1% Triton X-100

Endonuclease Assay :

Incubation of 10 units of the enzyme in assay buffer with 0.5 μ g of pBR322 DNA for one hour at 70°C give < 5% conversion of RFI to RF II DNA.

Exonuclease Assay :

Incubation of 20 units of the enzyme with 1 μ g lambda DNA for 16 hours at 65°C in the *Tth* I restriction enzyme buffer does not produce any detectable degradation of the DNA.

For Research Using Only.

Please do not hesitate to contact us if you have any questions.

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