

EUB Polymerase

DNA-free

- Application:** EUB Polymerase is a thermostable DNA polymerase. It has a half-life of 3 hours at 96°C. DNA Polymerase possesses the following activities: 5' → 3' DNA polymerase activity and 5' → 3' exonuclease activity. EUB Polymerase lacks the 3' → 5' proofreading activity, which makes it easy to use. EUB Polymerase is purified free of contaminating endo- and exonucleases.
- Order Number:** 54-0100
- Unit Size:** One unit is defined as the amount of the enzyme required to incorporate 10 nmoles of dNTPs into acid-insoluble form in 30 minutes at 74°C.
- Storage Buffer:** 20 mM Tris-HCl (pH 7.4 at 25°C); 100 mM KCl; 0.1 mM EDTA; 1 mM DTT; 0.5 % Tween®20; 0.5 % Nonidet P 40; 200 µg/ml BSA and 50% glycerol
- Storage Conditions:** -20°C
- Concentration:** 2000 units/ml
- Lot Number:** 540P1035
- Expiry Date:** 2006-03
- Caution:** Repeated freezing and thawing of the enzyme may result in decreased activity of the polymerase. If the enzyme is frequently used, we recommend storage in refrigerator at +4°C.
- Quality Guarantee Certification:** This certificate is a declaration of analysis at the time of manufacture.
- Date of analysis:** 2005-03
- Certified by:** Doreen Wachauf
- Test conditions:** PCR analysis was performed on *Bacillus subtilis* DNA by using Onar®EUB Eubacteria Detection Kit. 5 µl were used for each PCR reaction. A single 280 bp PCR product was detectable at dilutions of up to 22,5 copies / µl on a 1.5% agarose/ TAE gel using Gelstar® stain.



Visualization of products from PCR reaction, Lane 1 – 8 dilution series of *Bacillus subtilis* DNA in the range from $2,25 \times 10^6$ copies / µl to 0,225 copies / µl

Notice to Purchaser

Some applications, for which this product can be used, are patent protected in certain countries. As with its purchase, no licenses for the use are acquired in the context of patent protected applications, the acquisition of appropriate licenses can be necessary depending upon the application and the country of application.