Datasheet

Concentration

5 units/µl supplied in 10 mM KPO_4 (pH 7.4 at 25°C), 0.1 mM EDTA, 0.1% Tween 20, 0.1% Triton-X 100 and 50 % (v/v) glycerol.

Features:

DFS-Plus Taq DNA Polymerase provides a new formula in buffers and additives to prevent failures in PCR-applications were inhibitors (e.g. proteins, fat or PS) reduce the performance.
The robust enzyme is well suited for sensitive experiments using random primers or bacterial templates. Because of the high sensitivity less than 6 molecules can be detected.

Quality Control:

- Endonucleases Incubation of 20 units of the enzyme in 1x reaction buffer with 1 µg lambda DNA for 16 h at 65°C in 50 µl yields no detectable degradation of DNA.
- Incubation of 20 units of the enzyme in 1x reaction buffer with 1 µg lambda DNA EcoR I/Hind III fragments for 16 h at 65°C in 50 µl yields no detectable degradation of DNA.
- Incubation of 32 units of the enzyme in 1x reaction buffer with 1 µg supercoiled pUC18 DNA for 16 h at 70° C in 50 µl resulted in no relaxation.
- Priming activity Incubation of 40 units of the enzyme in 1x reaction buffer with 100 ng template DNA and 0.2 mM dNTPs each, but without primers in 100 µl resulted in no DNA synthesis.
- PCR Test Good performance of DNA amplification was confirmed by using Lambda DNA as template (amplified fragment 12 kb) and human placenta DNA as template (amplified fragment 3.0 kb).
- No DNA contamination with enterobacterial DNA

Order Information

Prod. No.	Description	Quantity
N9140	Maximo DFS Plus Taq DANN Free Polymerase	500 Units
N9142	Maximo DFS Plus Taq DANN Free Polymerase	5x 500 Units
N9144	Maximo DFS Plus Taq DANN Free Polymerase	20x 500 Units