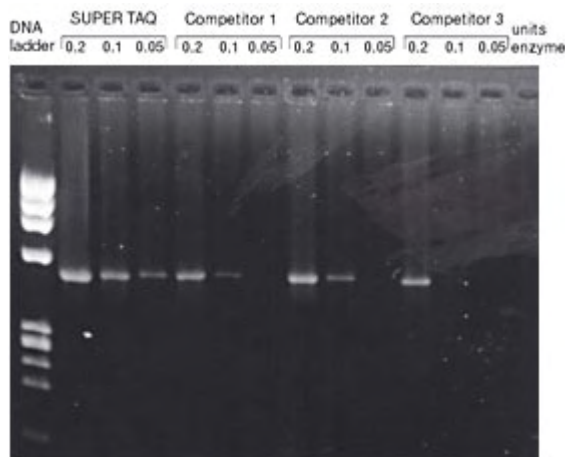


Product Description



SuperTaq – 5 units/ul

SuperTaq DNA polymerase (from *Thermus aquaticus*) expressed in *E. coli* is a **highly processive** 5'→3' DNA polymerase without 3'→5' exonuclease proof-reading activity. SuperTaq: 5 units/μl, is suited for general purposes but can also be used for amplification of DNA fragments by the polymerase chain reaction (PCR), amplification of single-copy genes from genomic DNA, for cycle-sequencing, for DNA-labeling and for real time PCR. SuperTaq DNA polymerase is licensed for PCR and extremely effective compared to competitors' Taq polymerases (see figure). 10 X PCR Puffer (1ml) is included.



SuperTaq-HC ("high concentration") - 15 units/ul

SuperTaq DNA polymerase "high concentration" is particularly useful for special applications such as **RAPD (random amplified polymorphic DNA)** for which large amounts of polymerase are required, but small reaction volumes are required. 10 X PCR Puffer (1ml) is included.

SuperTaq Plus - 5 units/ul

SuperTaq plus* is designed for "**long and accurate**" PCR (LA): LA-PCR is used for amplification of DNA fragments above 5 kb. To achieve higher yields and to improve polymerization accuracy, SuperTaq plus contains a mixture of SuperTaq and a second polymerase with 3'→5' exonuclease **proof-reading activity**. The latter corrects mis-incorporations of nucleotides. Since higher yields of PCR products (especially of fragments above 1 kb) are produced, less enzyme per reaction is required. The same buffer as for the regular SuperTaq can be used. 10 X PCR Puffer (1ml) is included.

The SuperTaq enzymes are greater than 95% pure by SDS-PAGE analysis. Each batch is tested for absence of endo- and exonuclease activities and assayed for amplification of a 506 bp fragment of *Thermus thermophilus* RNase H gene.

Many other PCR enzymes, nucleotides, and proteins are available on request !

Form# AT01
03-2011



7768 Service Center Drive • West Chester OH 45069
Phone: 513.770.1991 Toll Free: 866.783.3797 Fax: 513.573.9241 Email: info@aniara.com

www.aniara.com