

FastGene® BAC-free HS Taq is the optimal solution for microbial studies

The FastGene® BAC-free HS Taq DNA Polymerase is based on the single-subunit, wild-type Taq DNA polymerase of the thermophilic bacterium *Thermus aquaticus*. It is however not a bacterial recombinant protein but purified from an eukaryotic expression system.

### Applications

- High throughput PCR of bacterial genomes
- Amplification of low copy DNA templates
- Multiplex PCR
- Specific amplification of complex templates
- RT-PCR

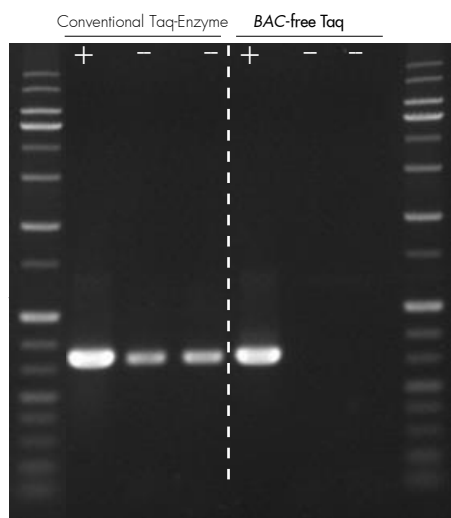


Fig. 1: Amplification of a non-ribosomal gene using *E. coli* DNA (+) or no template control (-) were amplified with standardly produced Taq vs FastGene® BAC-free HS Taq. The conventional Taq produced a product despite being a non-template control while there was no product in the FastGene® BAC-free HS Taq. This indicates a bacterial genomic DNA contamination of the conventional Taq polymerase

### Eukaryotic Expression System - No more false positive

Performing PCR with bacterial templates could lead to a false positive, when using Taq enzymes purified from *E. coli* expression systems due to a contamination of the Taq enzyme with prokaryotic genomes. The FastGene® BAC-free HotStart Taq DNA Polymerase is produced using eukaryotic cells. Hence, no bacterial genome is present.

### Ordering Information

Cat. No.	Product	Content
LS33	FastGene® BAC-free HS TAQ Polymerase	500 Units
LS05	FastGene® DNA Releasy	300µl, 10 Rxn
LS06	FastGene® DNA Releasy	1.5 ml, 50 Rxn

Best choice for 16S/23S microbial screening, *E. coli* contamination and forensic studies