

## Product Datasheet

### Taq DNA polymerase Hot-Start 1101

**Product Name** Taq DNA polymerase Hot-Start

**Catalog Number** #1101

**Description** Taq DNA polymerase Hot-Start is an aptamer-based fast-start formulated DNA polymerase supplied with a 10x reaction buffer that has been specially designed for optimal PCR performance and DNA polymerase activity. It's "Hot-Start" feature eliminates false amplification at temperatures below 50-55°C.

This DNA polymerase is suitable for a wide range of PCR applications and its 5'-3'-exonuclease activity means it can be used for hydrolysis probe-based real-time PCRs.

*For research use and further manufacturing. Designed and manufactured under ISO13485*

**Tested Applications** End-Point, Real-Time

**Brand** myPOLS Biotec

**Storage** -20°C

**References** Lawyer, F. C., Stoffel, S., Saiki, R. K., Myambo, K., Drummond, R., & Gelfand, D. H. (1989). Isolation, characterization, and expression in Escherichia coli of the DNA polymerase gene from Thermus aquaticus. *Journal of Biological Chemistry*, 264(11), 6427-6437.

Tindall, K. R., & Kunkel, T. A. (1988). Fidelity of DNA synthesis by the Thermus aquaticus DNA polymerase. *Biochemistry*, 27(16), 6008-6013.

Saiki, R. K., Gelfand, D. H., Stoffel, S., Scharf, S. J., Higuchi, R., Horn, G. T., ... & Erlich, H. A. (1988). Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase. *Science*, 239(4839), 487-491.

**Content** S pack: 400 U, 5 U/μl, 1 x 80 μl Taq DNA polymerase Hot-Start; 2x 1.25 ml 10 x Taq Buffer

L pack: 4000 U, 5 U/μl, 2 x 400 μl Taq DNA polymerase Hot-Start; 13x 1.25 ml 10 x Taq Buffer