

HawkZ05 Fast Polymerase

Single enzyme for fast and efficient RNA & DNA amplification

The choice of polymerase is a crucial component to success in amplification, for both RNA and DNA. CustomBiotech offers a single-enzyme solution for Real-Time PCR detection of both targets – HawkZ05 Fast Polymerase. HawkZ05 Fast Polymerase enables you to run fast one-step RT-PCR protocols with just one enzyme. The enzyme aptamer oligonucleotide mixture is a reversible, temperature-dependent hot start system. The aptamer acts as a molecular switch, changing its temperature-dependent tertiary structure. Dropping the temperature below +55°C shuts off the polymerase activity, while temperatures above +60°C fully activate the enzyme.



RNA

Fast, High Temperature Reverse Transcription



DNA

Robust DNA Polymerase

Z05 Fast Polymerase

HawkZ05 Fast Polymerase benefits:

- **Achieve improved convenience and flexibility in IVD PCR workflows**

HawkZ05 Fast Polymerase hot start system enables simultaneous detection of both RNA and DNA targets, such as HCV and HPV.

- **Develop and run assays for difficult targets**

Achieve reliable amplification of your low-copy and complex RNA targets due to high temperature reverse transcription at 60–65°C and improved RNA processivity.

- **Reduce time to result**

Use a fast PCR protocol to reduce your total assay and turn-around time (TAT) without losing sensitivity and linearity. Run RT-PCR reaction in as little as 44 minutes.

- **Easily work with crude samples**

Hawk Z05 Fast Polymerase shows high inhibitor tolerance towards PCR inhibitors such as Heparin and SDS, and robust performance in problematic clinical samples from, for example, stool or nasal swabs.

- **Suitable for various diagnostic PCR systems and applications**

Glycerol-free enzyme available for lyophilization and improved liquid handling.

- **Obtain consistent results**

Rely on our standardized manufacturing processes, including extensive QC release testing and thus, high lot-to-lot consistency, providing the perfect basis for (IVD) kit manufacturers and end users.

Ordering information

Product	Pack size	Catalog Number
HawkZ05 Fast DNA Polymerase, glycerol-free, 200 U/μl	Custom fill	07 731 329 103
Related products	Pack size	Catalog Number
NucleoMixes PCR Grade		
dATP, dCTP, dGTP, dTTP (25 mmol/l each)	20 ml 100 ml	04 920 171 103 03 991 016 103
dATP, dCTP, dGTP, dTTP (10 mmol/l each)	100 ml	03 186 083 103
dATP, dCTP, dGTP, dUTP (25 mmol/l each)	20 ml	04 980 905 103
dATP, dCTP, dGTP, dUTP (10 mmol/l each)	100 ml	03 186 075 103

Regulatory Disclaimer

For further processing only.

Trademark

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