

| Product Information | |
|-----------------------------------|----------------------|
| AccuStart Taq DNA Polymerase HiFi | |
| Part Number | 95085-01K |
| Number of Units | 1000 Units |
| Concentration | 5U/μL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 028150 |
| Reference Number | 100917,062016,061616 |
| Expiration Date | 06/30/2019 |

Product Description:

AccuStart Taq DNA Polymerase HiFi combines high-yielding mutant Taq DNA polymerase with 3'-exonuclease (proof-reading) polymerase and ultrapure, monoclonal antibody hot-start activation control. This reagent provides highly-sensitive and precise target amplification with convenient assembly at ambient temperature. Robust and reliable amplification of large, complex DNA targets up to 20kb in length.

Component Part Numbers:

84123 AccuStart Taq DNA Polymerase HiFi, 0.20mL

84125 10X HiFi PCR Buffer 1.25mL

84126 50mM Magnesium Sulfate 1.25mL

| Product Specifications | | | |
|------------------------|----------------------------|-------|-------|
| 95085 | | | |
| Assay | 23 Kb PCR Functional Assay | DNase | RNase |
| Result | Pass | Pass | Pass |

Quality Control Analysis and Specifications:

Nuclease Assay:

DNase: DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

RNase: RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

23 Kb PCR Functional Assay for HiFi DNA Polymerase: Amplification of >23-kb product must be visible by agarose gel electrophoresis following a 35 cycle PCR amplification of a single copy sequence from 100 ng human genomic DNA. Negative control must be free of visible product.

Limitations of Use

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This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.