

Product Information	
AccuStart Taq DNA Polymerase HiFi	
Part Number	95085-01K
Number of Units	1000 Units
Concentration	5U/ $\mu$ L
Storage Temperature	-25°C to -15°C
Lot Number	029452
Reference Number	100917,012919,061616
Expiration Date	10/31/2020

**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.