

| Product Information        |                |
|----------------------------|----------------|
| AccuStart™ II PCR SuperMix |                |
| Part Number                | 95137-500      |
| Number of Reactions        | 500 Reactions  |
| Reaction Size              | 25 µL          |
| Storage Temperature        | -25°C to -15°C |
| Lot Number                 | 66269197       |
| Reference Number           | 072424         |
| Expiration Date            | 07/31/2027     |

**Product Description:**

AccuStart II PCR SuperMix is a 2X concentrated, ready-to-use reaction cocktail for routine PCR amplification of DNA fragments up to 4 kb. It contains all components, except primers and template. AccuStart II PCR SuperMix simplifies reaction assembly, improves assay reproducibility, and reduces the risk of contamination. A key component is AccuStart™ II Taq DNA polymerase which contains monoclonal antibodies that bind to the polymerase and keep it inactive prior to the initial PCR denaturation step. Upon heat activation (1 minute at 94°C), the antibodies denature irreversibly, releasing fully active, unmodified Taq DNA polymerase. This enables specific and efficient primer extension with the convenience of room temperature reaction assembly.

**Component Part Numbers:**

**84229 AccuStart II PCR SuperMix 1.25mL**

| Product Specifications |                            |       |       |
|------------------------|----------------------------|-------|-------|
| 95137                  |                            |       |       |
| Assay                  | 4.1KB 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.

**4.1KB PCR Functional Assay:** Negative control must be free of visible product with a single band at ~4.1Kb visible from 35 cycles of PCR using 20ng human genomic DNA.

**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.

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