

Product Information	
<b>AccuStart II Custom Taq DNA Polymerase</b>	
Part Number	172-5055
Storage Temperature	-25°C to -15°C
Lot Number	66172529
Reference Number	020519 030920 101920
Expiration Date	02/28/2022

**Product Description:**

AccuStart II Taq DNA Polymerase with customized buffers for Biomerieux.

**Components:**

**84251 AccuStart II Taq, 1.0mL**

**84290 25mM MgCl<sub>2</sub>, 25.0mL**

**84291 10X PCR Buffer II, 15mM MgCl<sub>2</sub>, 25.0mL**

Product Specifications						
172-5055						
Assay	4.1KB PCR Functional Assay	(IL1-b) from Human Genomic DNA qPCR Functional Assay	Taq DNA Polymerase Concentration	Enzyme Purity	DNase	RNase
Result	Pass	Pass	±10%	>95%	Pass	Pass

Director of Quality Control

**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.

**(IL1-b) from Human Genomic DNA qPCR Functional Assay:** There must be detection of IL1-β from 33ng to 33pg (1 x 10<sup>4</sup> copies to 10 copies). Coefficient of determination R<sup>2</sup> ≥ 0.990 from Ct standard curve analysis; Slope from Ct standard curve analysis between -3.20 and -3.65

**Protein Concentration (OD<sub>280</sub>)** is determined by OD<sub>280</sub> absorbance.

**Physical Purity** is evaluated by SDS-PAGE of concentrated and diluted enzyme solutions followed by silver stain detection. Purity is assessed by comparing the aggregate mass of contaminant bands in the concentrated sample to the mass of the protein of interest band in the diluted sample.

**Specific Conductivity:** 1150 ± 75µS @20-25°C

**pH:** 8.7 ± 0.1 @20-25°C

**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.