

Product Information	
<b>AccuStart Long Range SuperMix</b>	
<b>Part Number</b>	95199-025
<b>Number of Reactions</b>	25 reactions
<b>Reaction Size</b>	50 uL
<b>Storage Temperature</b>	-25°C to -15°C
<b>Lot Number</b>	66209785
<b>Reference Number</b>	041422
<b>Expiration Date</b>	04/30/25

**Product Description:**

The AccuStart Long Range SuperMix is a 4x, ready-to-use solution that contains all the components for long-range target amplifications, including a blend of two hot-start thermostable DNA polymerases (one with strong proof-reading activity) and an optimized buffer to ensure high efficiency, sensitivity and specificity for amplification of long-range targets. This mix enables routine and easy amplification of up to 24kb target from human genomic DNA with high accuracy (> 10-fold better fidelity than Taq) and accommodates targets with broad GC-content (no separate GC buffer needed). Fast cycling conditions (≥2 kb/min) can be implemented for extremely long targets. This product is also capable of amplifying multiple targets simultaneously – up to 6 targets up to 6 kb each.

**Component Part Numbers:**

**84638 AccuStart Long Range SuperMix 0.313 mL**

Product Specifications	
<b>95199</b>	
<b>Assay</b>	Long Range PCR Master Mix Functional Assay
<b>Result</b>	Pass

**Quality Control Analysis and Specifications:**

The functionality of the AccuStart Long Range SuperMix is evaluated in a PCR reaction to produce a major band of amplification for targets at 24 kb, 17.5 kb and 8.5 kb from 5 ng of Human Genomic DNA.

**Notes:**

Enzyme components were tested prior to formulation of the master mix and found free of contaminating endonucleases and exonucleases. Enzyme purity was >99% as determined by SDS-PAGE and negligible *E.coli* genomic DNA contamination was confirmed by qPCR. Specific activity was verified for each enzyme pre-formulation.

**Limitations of Use**

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