

Product Information	
AccuStart Long Range SuperMix	
Part Number	95199-025
Number of Reactions	25 reactions
Reaction Size	50 uL
Storage Temperature	-25°C to -15°C
Lot Number	66262130
Reference Number	070323
Expiration Date	07/31/2026

**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	
95199	
Assay	Long Range PCR Master Mix Functional Assay
Result	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**

QuantaBio, UltraPlex, qScript, GelTrack, ToughMix, PerfeCta, and FastMix are registered trademarks of QuantaBio, LLC. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact QuantaBio for more information.

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.

100 Cummings Center, Suite 407J, Beverly, MA 01915 • Phone +1 888-959-5165 • [www.quantabio.com](http://www.quantabio.com) FMWI-016.2 Rev.03