

Product Information	
Perfecta® PreAmp SuperMix	
Part Number	95146-040
Number of Reactions	40 Reactions
Reaction Size	50 µL
Storage Temperature	-25°C to -15°C
Lot Number	66295644
Reference Number	030724
Expiration Date	03/31/2027

**Product Description:**

Perfecta PreAmp SuperMix is a 5X concentrated, ready-to-use reaction cocktail for unbiased, selected enrichment of target sequences from limiting amounts of starting material for downstream gene expression profiling or targeted re-sequencing. It contains all components, except primers and templates. The 5X concentrated Master Mix allows addition of higher template volumes when working with low concentration samples, and/or reduced reaction volumes. Inclusion of an inert light blue tracer dye helps visualize small reaction volumes and ensure accurate pipetting.

**Component Part Numbers:**

**84262 Perfecta PreAmp SuperMix 0.40mL**

Product Specifications			
95146			
Assay	Pre-amplification Functional Assay	DNase	RNase
Result	Pass	Pass	Pass

**Quality Control Analysis and Specifications:**

**Pre-amplification Functional Assay:** 10 ng (total RNA equivalent) of cDNA prepared from Human Universal Reference total RNA is used as template for a 96-plex pre-amplification reaction. Pre-amplifications are performed in triplicate for both 10 and 14 cycles. Each of the 96 individual assays are then assayed by SYBR Green qPCR using input amounts of pre-amplified cDNA normalized to 4 ng of the original cDNA. Cq values for each assay are compared to control qPCRs from 4 ng of the original cDNA.

- >90% of assays are within +/- 1.5  $\Delta\Delta Cq$
- Correlation of Cq values between cDNA and pre-amplified cDNA should be 0.97 for at least 95% of the assays
- Correlation of Cq values between cDNA pre-amplified for 10 cycles and 14 cycles should be 0.97 for >95% of the assays
- The mean difference in Cq between replicate pre-amplified cDNA samples should be between +/- 1.0

**Nuclease Assay:**

**DNase:** Detectable 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 with 1X PreAmplification Master Mix solution at 37°C.

**RNase:** Detectable 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 with 1X PreAmplification Master Mix solution at 37°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.

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