

Product Information	
<b>Perfecta® PreAmp SuperMix</b>	
<b>Part Number</b>	95146-040
<b>Number of Reactions</b>	40 Reactions
<b>Reaction Size</b>	50 µL
<b>Storage Temperature</b>	-25°C to -15°C
<b>Lot Number</b>	66170464
<b>Reference Number</b>	050620
<b>Expiration Date</b>	05/31/2023

**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
<b>Result</b>	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 ΔΔCq
- 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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