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	66190641
Reference Number	050620
Expiration Date	05/30/2023

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**
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 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 37ºC.

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 37ºC.

Limitations of Use