

| Product Information | |
|----------------------------------|----------------|
| Perfecta® PreAmp SuperMix | |
| Part Number | 95146-005 |
| Number of Reactions | 5 Reactions |
| Reaction Size | 50 µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 029260 |
| Reference Number | 010319 |
| Expiration Date | 01/31/2022 |

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:

84261 Perfecta PreAmp SuperMix 0.05mL

| 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 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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