Product Information	
PerfeCta qPCR FastMix, UNG	
Part Number	95076-05K
Number of Reactions	5,000 Reactions
Reaction Size	20 µL
Storage Temperature	-25ºC to -15ºC
Lot Number	025325
Reference Number	010417
Expiration Date	01/31/2020

Product Description:

PerfeCTa qPCR FastMix, UNG is a 2X concentrated, ready-to-use reaction cocktail that contains all components, except primers, probe(s), and template for real-time quantitative PCR systems that do not require an internal reference dye. The proprietary buffer and stabilizers have been specifically optimized to deliver maximum PCR efficiency, sensitivity, and robust fluorescent signal with TaqMan® or TaqMan MGB probe chemistry when using rapid PCR cycle times and reduced reaction volumes. This affords greater reagent economy and laboratory throughput on conventional or rapid ramp rate qPCR systems. The enhanced specificity of this FastMix suppresses cross-reactivity between homologous sequences, improving detection and discrimination in SNP applications. A key component of this FastMix is AccuFast™ Taq DNA polymerase. This hot-start Taq contains a proprietary mixture of monoclonal antibodies that bind to the polymerase and keep it inactive prior to the initial PCR denaturation step (> 48 hours at room temperature).

Product Specifications			
95076			
Assay	**qPCR ß-actin Plasmid DNA Functional Assay**	**DNase**	**RNase**
Result	Pass	Pass	Pass

Quality Control Analysis and Specifications:

qPCR ß-actin Plasmid DNA Functional Assay: Real-time PCR detection of log-fold serial dilutions of a control DNA from 10 to 1 x 10^7 copies. Cq standard curve analysis must have coefficient of determination (R^2) ≥0.990 with a slope between –3.20 and –3.70.

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 at 37°C with each kit component at 1X concentration.

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 at 37°C with each kit component at 1X concentration.

Limitations of Use