

Product Information	
PerfeCTa® Custom FastMix II Low ROX™	
Part Number	172-5074
Reaction Size	20µL
Volume	50.0mL
Storage Temperature	-25°C to -15°C
Lot Number	66189244
Reference Number	051121
Expiration Date	04/30/2024

Product Description:

PerfeCTa Custom FastMix II Low ROX is an advanced 2X concentrated qPCR SuperMix reagent for both fast and conventional PCR cycling protocols or instruments. It is a versatile and robust solution that provides the ultimate sensitivity and high PCR efficiency using a variety of fluorogenic probe chemistries, including TaqMan hydrolysis probes.

Product Specifications				
172-5074				
Assay	RT-qPCR Plasmid DNA Functional Assay	RT-qPCR genomic DNA Functional Assay	DNase	RNase
Result	Pass	Pass	Pass	Pass

Director of Quality Control

Quality Control Analysis and Specifications:

Nuclease Assay:

DNase: 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: 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.

RT-qPCR Plasmid DNA Functional Assay: Fast-cycling Real-time PCR detection of log-fold serial dilutions of a control DNA from 10⁷ to 10 copies. Linear regression analysis of cycle threshold versus log input quantity must give a slope of between -3.2 and -3.6 and coefficient of determination (r^2) ≥0.990.

RT-qPCR genomic DNA Functional Assay: Real-time PCR detection of single-copy gene in human genomic DNA using activation step of 10 minutes at 95°C. Linear regression analysis of cycle threshold versus log input quantity for a log-fold serial dilutions of human genomic DNA from 10⁵ to 10 copies must give a slope of between -3.2 and -3.6 and coefficient of determination (r^2) ≥0.990 with accurate two-fold discrimination of 500, 1000, and 2000 copies.

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.