

Product Information	
<b>PerfeCTa® Custom FastMix II Low ROX™</b>	
Part Number	172-5074
Reaction Size	20µL
Volume	50.0mL
Storage Temperature	-25°C to -15°C
Lot Number	66179734
Reference Number	030321
Expiration Date	02/29/2024

**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

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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 10<sup>7</sup> 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<sup>2</sup>) ≥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 10<sup>5</sup> to 10 copies must give a slope of between -3.2 and -3.6 and coefficient of determination (r<sup>2</sup>) ≥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.