

Product Information	
RTQ13 Enzyme RT Mix (10X)	
Part Number	172-5527
Storage Temperature	-25°C to -15°C
Lot Number	029070
Reference Number	011519
Expiration Date	01/31/2021

Product Description:

Custom formulation for HlioDX.

Product Specifications			
172-5527			
Assay	Custom cDNA Synthesis Reagents for QIAGEN Marseille	DNase	RNase
Result	Pass	Pass	Pass



Director of Quality Control

Quality Control Analysis and Specifications:

Custom cDNA Synthesis Reagents for QIAGEN Marseille Functional qPCR Assay: First-strand synthesis is performed in triplicate on dilutions of universal reference UHR total RNA (2 ug, 1 ug, then log-fold dilutions from 100 ng to 10 pg) in 25- μ L reaction volumes using 1X (final concentration) RTQ13 Enzyme Mix and RTQ13 Reaction Mix. One tenth of each first strand reaction is used as template for real-time qPCR of a reference gene (beta-actin mRNA) in duplicate reactions using 5'-hydrolysis probe detection chemistry and PerfeCta qPCR FastMix II. Ct standard curve analysis must have a coefficient of determination (R^2) \geq 0.990 with a slope between -3.25 and -3.65

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.

Composition:

50 kU/mL RTQ13 Reverse Transcriptase, 10kU/mL RNase Inhibitor Protein in 50% glycerol, 20 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.02% NP40, 0.2 mM EDTA, and 8 mM DTT

Notes:

172-5527 (RTQ13 Enzyme RT Mix 10X) and 172-5064 (RTQ13 Reaction Mix 3.3X) are tested together.

Limitations of Use

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