

Product Information	
eQo 1-Step ToughMix	
Part Number	95301-100
Number of Reactions	100 reactions
Reaction Size	20 µL
Storage Temperature	2°C - 8°C
Lot Number	D0925002
Expiration Date	08AUG2028

Product Description:

eQo 1-step ToughMix is a lyophilized reagent system for reverse transcription quantitative PCR (RT-qPCR) of RNA templates using hybridization probe detection chemistries such as TaqMan® 5'-hydrolysis probes on systems that do not require a passive reference dye. It is supplied with a proprietary rehydration buffer that produces a stabilized 4X concentrated master mix that contains a thermolabile UDG for amplicon carryover elimination, an enhanced warm start reverse transcriptase (RT) and all other required components for 1-step RT-qPCR except RNA template and primer/probe(s). This robust 1-step ToughMix has been processed and dried into small, stable beads, packaged into tubes, and sealed in pouches with desiccant packets to provide maximal stability for room-temperature shipping and storage. Upon receipt the sealed packets should be stored refrigerated at 2 – 8°C. Once a sealed packet is opened, the dried beads must be immediately dissolved using the provided rehydration buffer. This buffer contains components that improve detection of GC-rich targets and additional stabilizers that allow for up to 1 year storage at -20°C of the 4X concentrated liquid ToughMix).

For Research Use Only *Not for use in diagnostic procedures*

Component Part Numbers:

312984 eQo MasterMix Pouch, 100 reaction packet

312973 eQo Rehydration Buffer, 0.55 mL

Product Specification			
Assay	eQo 1-step ToughMix Functional Assay	DNase	RNase
Result	Pass	Pass	Pass

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.

eQo 1-Step ToughMix Functional Assay: Must have detection of CDKN1B from 100 pg to 100,000 pg of UHR total RNA. Must have detection of β actin, GAPDH, and TUBA from 1 pg to 100,000 pg of UHR total RNA. Cq standard curve analysis for each targeted sequence must have a coefficient of determination (R^2) ≥ 0.990 with a slope between -3.20 and -3.65.

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.

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