

Product Information	
eQo 1-Step ToughMix	
Part Number	95301-100
Number of Reactions	100 reactions
Reaction Size	20 µL
Storage Temperature	2°C - 25°C
Lot Number	D0424024
Expiration Date	30APR2025

**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, or at ambient temperature ( $\leq 25^{\circ}\text{C}$ ). 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

312973 eQo Rehydration Buffer

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

**Quality Control Analysis and Specifications**

**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  $\beta$  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 ( $R^2$ )  $\geq 0.990$  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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