

TaqPath™ 1-Step RT-qPCR Master Mix, CG

Product No: A15299 A15300
 Quantity: 5 x 1 mL 1 x 10 mL
 Packaging Lot¹: 3489716
 Expiration Date: 24 March 2028
 Storage: -25 to -15°C
 Bulk Lot²: 3453701

Manufactured according to current good manufacturing practices (cGMP) and subjected to a panel of quality control tests to ensure the highest level of performance and lot-to-lot consistency.

Analytical Methods

Parameter	QC method	Specification	Result
Magnesium ion (Mg ²⁺) concentration	High performance ion chromatography with the detection of conductivity signal is performed on the product and standards	24.48 – 33.12 mM	Conforms
Potassium ion (K ⁺) concentration		170 – 230 mM	Conforms
DNase Level	DNase levels are measured using a modified DNA oligonucleotide possessing a quencher and fluorescent label that emits a fluorescent signal when cleaved by DNase.	Samples have ≤ 44.0 pg / 5 µL	Conforms
<i>E. coli</i> DNA Level	<i>E. coli</i> DNA levels are quantified via qPCR utilizing a standard curve with four replicates for each point.	≤ 10 copies of <i>E. coli</i> DNA / 50 µL Reaction Volume	Conforms
pH	The pH value is measured at a temperature of 25 °C.	7.95 – 8.25	Conforms

Note: Enzyme bulk is tested for activity and *E.coli* DNA Level

Functional Tests

TaqPath™ 1-Step RT-qPCR Master Mix, CG is tested for performance using a panel of three simplex Gene Expression assays and one duplex assay coupled with an exogenous internal positive control (IPC) reagent. Reactions are performed on a serial dilution of purified human RNA. Performance attributes evaluated include PCR efficiency, R² value, and absolute CT value.

	PCR Efficiency	R ² Value	CT Value	Result
Assay HPRT1 (duplex assay)	85% - 115%	≥ 0.98	23.5 – 27.3	Conforms
Assay Hs00164924_m1	85% - 115%	≥ 0.98	22.9 – 27.3	Conforms
Assay Hs00298216_s1	85% - 115%	≥ 0.98	22.5 – 25.5	Conforms
Assay RNaseP	85% - 115%	≥ 0.98	25.7 – 28.7	Conforms

	CT Value	Result
Assay Exogenous IPC (duplex assay)	28.1 - 32.3	Conforms

Quality Signature: Audronė Lakštauskienė

Date: 2026-05-22



For Laboratory Use.

¹ Packaging Lot is the unique Lot # assigned to the packing event of the vials into the product boxes.

² Bulk Lot is the unique Lot # assigned to the production Lot prior to filling. Note: It is possible for different packing Lot's to be filled by the same bulk Lot.