Certificate of Analysis



TaqMan® PreAmp Cells-to-CT™ Kit

Product No. Lot No. Date of Manufacture Expiration Date	4387299 2656627 2023-02-13 2024-02-29
Product Description	The TaqMan® PreAmp Cells-to CT™ Kit enables lysis, reverse transcription, preamplification, and real-time PCR analysis of up to 100 gene expression targets from limited samples of mammalian cultured cells, without RNA purification.
Functional Testing	Each component is functionally tested by preparing lysates from a serial dilution of 10–10 ⁵ cultured cells and performing real-time RT-PCR targeting PPIA. Amplification signals are compared to those obtained from purified RNA from the same source. Result: Pass

TEST	SPECIFICATION	RESULT
Lysis Solution		
Activity Assay Ionic Strength pH Assay	Activity of Lysis Solution is tested. Ionic strength is determined. pH is determined.	Pass Pass Pass
Stop Solution		
Exonuclease Activity	A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.	Pass
Inhibition Assay	The ability of Stop Solution to inhibit Lysis Solution activity is tested.	Pass
Nonspecific Endonuclease Activity	A sample is incubated with supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.	Pass
pH Assay	pH is determined.	Pass
RNase Activity	A sample is incubated with labeled RNA, followed by PAGE analysis.	Pass
DNase I		
Protease Activity	A sample is incubated with protease substrate and analyzed by fluorescence.	Pass
RNase Activity	A sample is incubated with labeled RNA, followed by PAGE analysis.	Pass
2X RT Buffer		
Cation Concentration	Cation concentrations are determined.	Pass
Exonuclease Activity	A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.	Pass
Nonspecific Endonuclease Activity	A sample is incubated with supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.	Pass
pH Assay	pH is determined.	Pass
	PAGE 1 of 3	Rev. 1

Certificate of Analysis



RNase Activity	A sample is incubated with labeled RNA, followed by PAGE analysis.	Pass		
RT-PCR Testing	2X RT Buffer is tested in two-step RT-PCR targeting an endogenous control gene using purified RNA.	Pass		
20X RT Enzyme Mix				
Exonuclease Activity	A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.	Pass		
Nonspecific	A sample is incubated with supercoiled plasmid DNA	Pass		
Endonuclease Activit Protease Activity	y and analyzed by agarose gel electrophoresis. A sample is incubated for with protease substrate and analyzed by fluorescence.	Pass		
RNAse Activity	A sample is incubated with labeled RNA, followed by PAGE analysis.	Pass		
RT Activity Assay	Incorporation of $[\alpha^{-32}P]$ dTTP into first strand cDNA during a reverse transcription reaction is measured.	Pass		
RT-PCR testing	20X RT Enzyme Mix is tested in two-step RT-PCR targeting an endogenous control gene using purified RNA.	Pass		
TaqMan®Gene Expression Master Mix				
AmpliTaq Gold® DNA		Pass		
Polymerase UP Activ	•			
Bacterial DNA	A sample is tested for bacterial DNA.	Pass		
dNTP Concentrations		Pass		
DNase Activity	A sample is tested for DNase activity.	Pass		
Mg ²⁺ Ion Concentrati	on A sample is tested for magnesium ion (Mg ²⁺) concentration.	Pass		
pH Assay	pH is determined.	Pass		
RNase Activity	A sample is tested for RNase activity.	Pass		
ROX™ Passive Reference A sample is tested for ROX dye fluorescence.		Pass		
Fluorescence Assay	Tankan ® Cara Farancia Mantankai internal di ili			
Functional Testing	TaqMan® Gene Expression Master Mix is tested with simplex and duplex PCR targeting plasmid DNAs on an Applied Biosystems 7900HT Fast Real-Time PCR System. Functional testing data for this component is available by entering its part number and lot number at http://docs.appliedbiosystems.com/coasearch.taf.	Pass		

PAGE 2 of 3 Rev. 1

Certificate of Analysis



TaqMan® PreAmp Master Mix

MgCl₂ Concentration A sample is tested for MgCl₂ concentration. **Pass** dNTP Concentrations Individual dNTP concentrations are measured. **Pass Functional Testing** TagMan® PreAmp Master Mix is tested for functional performance on an Applied Biosystems 7900HT Fast Real-Time PCR System. The preamplification reaction is performed using a pool of 100 TaqMan® Gene Expression Assays. Preamplified versus unamplified **Pass** cDNA is compared by analyzing the CT values of 21 of the targets contained in the 100-assay pool. Functional testing data for this component is available by entering

http://docs.appliedbiosystems.com/coasearch.taf.

its part number and lot number at

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

ISO CERTIFICATION

This product is produced in accordance to Thermo Fisher Scientific Baltics UAB, a wholly owned subsidiary of Thermo Fisher Scientific Inc. (hereinafter Thermo Fisher) certified Quality Management (ISO 9001) and Environmental Management (ISO 14001) systems. Thermo Fisher Scientific Baltics UAB is also certified according to the standards ISO 13485 (Quality management system for IVD medical devices).

Thermo Fisher Scientific Baltic UAB
V.A. Graiciuno 8
Vilnius, Lithuania 02241
www.thermofisher.com
For inquiries, contact us at cofarequests@thermofisher.com

J. Žilinskienė Quality Assurance Issued 2023-02-14

PAGE 3 of 3 Rev. 1