

RNA module for Countable PCR (KT0010)

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

Description

RNA Module for Countable PCR Kit is designed to perform reverse transcription and PCR amplification from RNA templates within a single reaction. Optimized for use with the Countable 4X PCR Mix (KT0004) and the Countable PCR platform (IM0001), this module enables a streamlined one-step workflow that improves efficiency, specificity, and sensitivity for precise RNA quantification, while ensuring RNA integrity throughout the entire workflow using RNase Inhibitor. The kit is compatible with hydrolysis probe-based assays, delivering clean signal profiles and uniform amplification across a wide dynamic range.

Kit Contents

Component	Catalog #	Quantity
Reverse Transcriptase	PRO019	1
RNase Inhibitor	PRO018	1

Supports up to 192 Countable PCR reactions per kit.

Storage and Stability

- Store all components at -25°C to -15°C
- Avoid repeated freeze-thaw cycles
- Shelf life: 2 years from date of manufacture

Handling Instructions

- Thaw components on ice or ice-block and mix by gentle tapping. Centrifuge briefly to collect contents at the bottom of the tube
- Prepare the RNA sample before setting up the reaction mix and keep both of them on ice
- Suggested input quantities of total RNA are up to 1 µg per reaction

Workflow Overview

See Countable PCR Reaction Preparation User Guide

Safety Information

This kit does not contain a reportable quantity for hazardous materials. Use in accordance with standard lab safety practices.

Additional Information

Probe Additive Recommendation

For hydrolysis probe assays, Countable Labs strongly recommends the use of a Probe Additive (PA) to reduce background fluorescence and enhance signal-to-noise ratio. The Probe Additive is an oligonucleotide designed to improve quenching efficiency in single-molecule PCR reactions, where residual unquenched fluorophores can otherwise contribute to false signal detection.

Addition of Magnesium Chloride ($MgCl_2$)

$MgCl_2$ is an essential cofactor for enzymatic activity. The Countable 4X PCR Mix kit (KT0004) includes a separate 50 mM $MgCl_2$ solution. To enhance the signal in an RT-PCR reaction within the Countable system, add 1.5 μ L of the 50 mM $MgCl_2$.

Recommended primer and probe concentrations are provided in the Countable PCR Reaction Preparation User Guide.

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