



Thermostable reverse transcriptase (compatible with LAMP) Instructions

✉ info@ezassay.com

🌐 www.ezassay.com

EZassay Biotechnology Ltd.

Catalog Code: RT-TS-LM-2000
RT-TS-LM-10000

CONTENTS

<u>Contents</u>	<u>Page</u>
Product Information	1
Product Introduction	1
Storage	1
Materials supplied	1
Unit definition	2
Recommended reaction system	2
Reverse transcription activity validation	2

Product Information

Product name	Thermostable reverse transcriptase (for LAMP)
Expression system	Escherichia coli
Quality	Recombinant protein
Form	Liquid

Product Introduction

Thermostable reverse transcriptase uses RNA as a template to efficiently synthesize DNA. With RNaseH activity, no 3'-5' exonuclease activity. Compared with conventional reverse transcriptases (e.g., Mu-MLV), this product can withstand high temperatures of 65°C and is suitable for use in loop-mediated isothermal amplification (LAMP).

Storage

-20°C. Suggest to aliquot after receiving. Avoid repeated freeze-thaw.

Materials supplied

Cat:	RT-TS-LM-2000	RT-TS-LM-10000
Thermostable reverse transcriptase (20U/μl)	100μl	500μl

Unit definition

One unit is defined as the amount of enzyme that will incorporate 1 nmol of dTTP into acid-insoluble material in a total reaction volume 50 μ l in 20 minutes at 50°C using poly(rA).oligo(dT) as template primer.

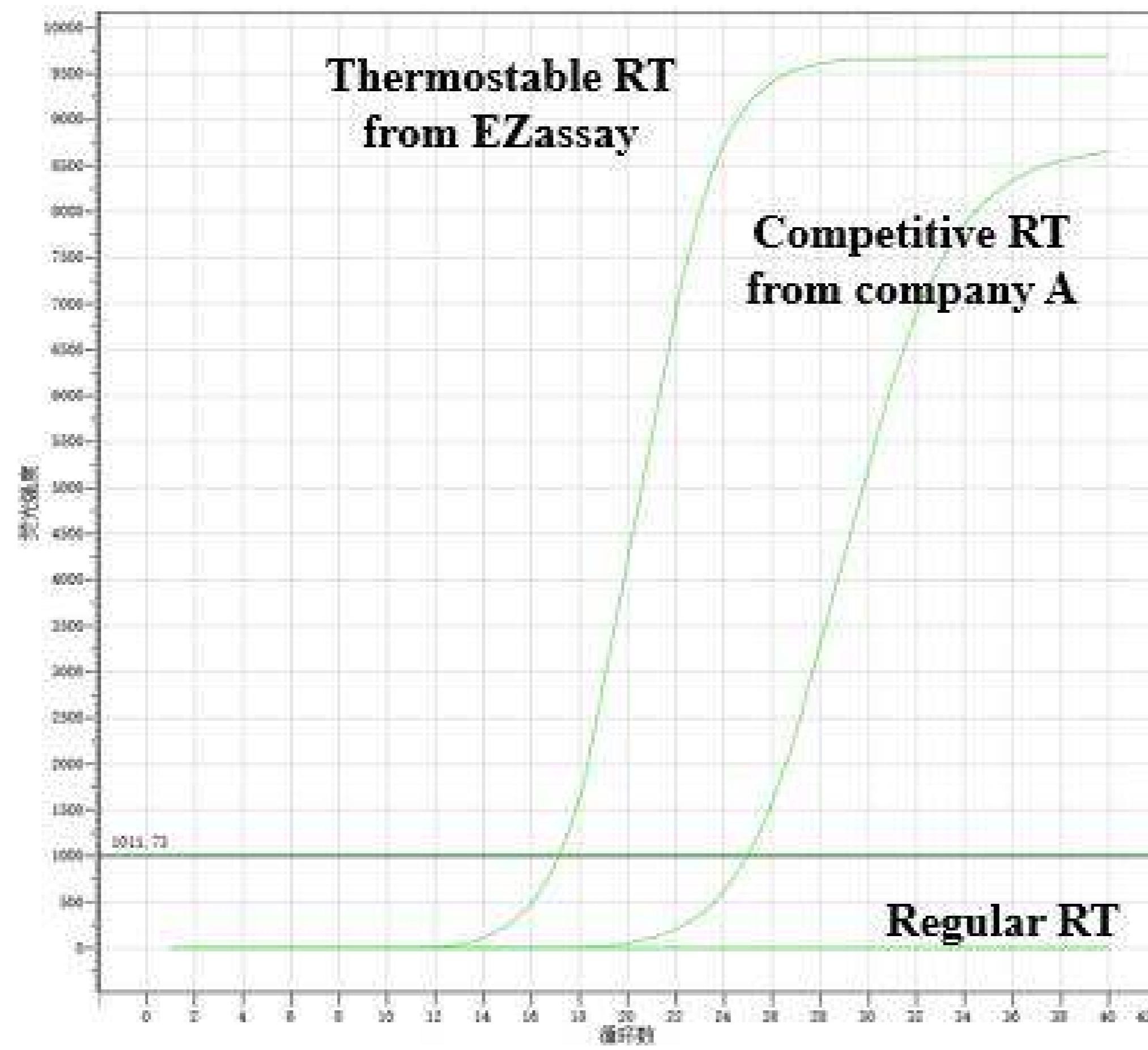
Recommended reaction system

以RT-LAMP为例：

Component	Volume	Working concentration
LAMP Reaction Buffer (2X)	12.5 μ l	1X
Bst2.0 (8U/ μ l)	1 μ l	8U
RT耐高温逆转录酶 (20U/ μ l)	0.5 μ l	10U
Primers (10X)	2.5 μ l	1.6 μ M FIP/BIP, 0.4 μ M LF/LB, 0.2 μ M F3/B3,
Template*	1 μ l	>10 copies or more
ddH2O	Up to 25 μ l	-

Reverse transcription activity validation

- l Template: RNA from Covid-19 pseudo-virus
- l Concentration: 500 copies/25 μ l reaction
- l Fluorescent dye: Eve Green
- l Set temperature at 65°C. Read fluorescence in Q-PCR machine for 40 minutes.



核酸与蛋白产品专业提供商
Professional supplier of point-of-care test products

EZ assay 深圳易致生物科技有限公司

🌐 www.ezassay.com
✉ info@ezassay.com