

AmpEasy™ RNA Extraction Kit (Buccal Swab)

Cat. No.:	YG501S	YG501
Product Name:	AmpEasy™ RNA Extraction Kit (Buccal Swab)	
Reactions:	10	100
Sample:	Liquid samples, such as buccal swab, serum, blood...etc.	
Format:	Reagent format	
Operation:	Incubation	
Operation Time:	10 Minutes	

Introduction

AmpEasy™ RNA Extraction Kit (Buccal Swab) is optimized for rapidly extracting RNA from liquid samples of human, animal, plant, yeast, bacterial, and viral origin within 10 minutes. RNA could be extracted by simply 3 steps. AmpEasy™ RNA Extraction Kit (Buccal Swab) offers excellent lysis capability even with difficult biological fluids. The extracted RNA can be detected down to 100 copies for virus detection. AmpEasy™ RNA Extraction Kit (Buccal Swab) is ideal for rapidly preparing RNA targets for downstream cDNA synthesis and real-time PCR amplification. For One-Step qRT-PCR, we would recommend our RR181 PairFast™ One-Step qRT-PCR Kit (For Probe System), which offers rapid, precise detection and quantification of RNA targets with probe-based qPCR within 22 minutes.

Features

Rapidly extracting RNA from a variety of liquid samples within 10 minutes.

High-quality RNA could be extracted by simply 3 steps.

The extracted RNA can be detected down to 100 copies for virus detection.

Specifications

Item	YG501S	YG501
AmpEasy™ RNA Extraction Buffer	250 ul	2.5 ml
AmpEasy™ RNA Extraction Buffer Enhancer	25 ul	250 ul
AmpEasy™ RNA Enhancer	500 ul	5 ml



Applications

Purified RNA is ready for direct use in RT-PCR, Northern Blot analysis, Dot Blot hybridization, poly(A)+ selection, in vitro translation, RNase protection assay, and molecular cloning.

Quality Control

The quality of AmpEasy™ RNA Extraction Kit (Buccal Swab) is tested on a lot-to-lot basis. Analysis shows RNA integrity is appropriate for reverse transcription and amplification of cDNA

Storage Conditions

AmpEasy™ RNA Extraction Kit (Buccal Swab) should be shipped at room temperature (15-25°C). AmpEasy™ RNA Extraction Kit (Buccal Swab) can be stored at room temperature (15-25°C) for up to 1 year without showing any deduction in performance and quality with proper storage. AmpEasy™ RNA Extraction Kit (Buccal Swab) can be stored at -20°C for up to 3 years without showing any deduction in performance and quality with proper storage.

Important Notes

Caution:

AmpEasy™ RNA Extraction Kit (Buccal Swab) contains irritants. During operation, always wear a lab coat, disposable gloves, protective goggles and (anti-fog) procedure mask.

Yield and Quality of Purified RNA:

AmpEasy™ RNA Extraction Kit (Buccal Swab) is designed to purify high yields of high-quality RNA. To properly collect a sample, scrape a fresh swab firmly against the inside of each cheek 6 times. Ensure that the person providing the sample has not consumed any food or drink in the 30 minutes prior to sample collection. Place the fresh swab in the mixed extraction buffer within 2 hours after collection. Yield will depend on the quality of the buccal cells collected.

Equipments and Reagents to Be Supplied by User:

Equipment for incubating at 95 °C for 10 minutes.

Sterile, RNase-free pipet tips for pipetting and tubes for RT-qPCR.

Things to do before starting:

Prepare the Extraction Buffer.

Add AmpEasy™ RNA Extraction Buffer Enhancer to the AmpEasy™ RNA Extraction Buffer.

The ratio of AmpEasy™ RNA Extraction Buffer Enhancer : AmpEasy™ RNA Extraction Buffer should be 1:24.

Quick reference table is listed below:

Reagent	Volume Used		
AmpEasy™ RNA Extraction Buffer Enhancer	1 µl	2 µl	4 µl
AmpEasy™ RNA Extraction Buffer	24 µl	48 µl	96 µl
Total Volume of the Mixed Extraction Buffer	25 µl	50 µl	100 µl

Protocol

Please read the entire important notes and things to do before starting prior to starting.

Step 1: Add the mixed extraction buffer to the sample.

The ratio of extraction solution : sample should be 1:1.

Step 2: Incubate at 95 °C for 10 minutes.

Step 3: Add AmpEasy™ RNA Enhancer to the incubation solution.

The ratio of AmpEasy™ RNA Enhancer: incubation solution should be 1:1.

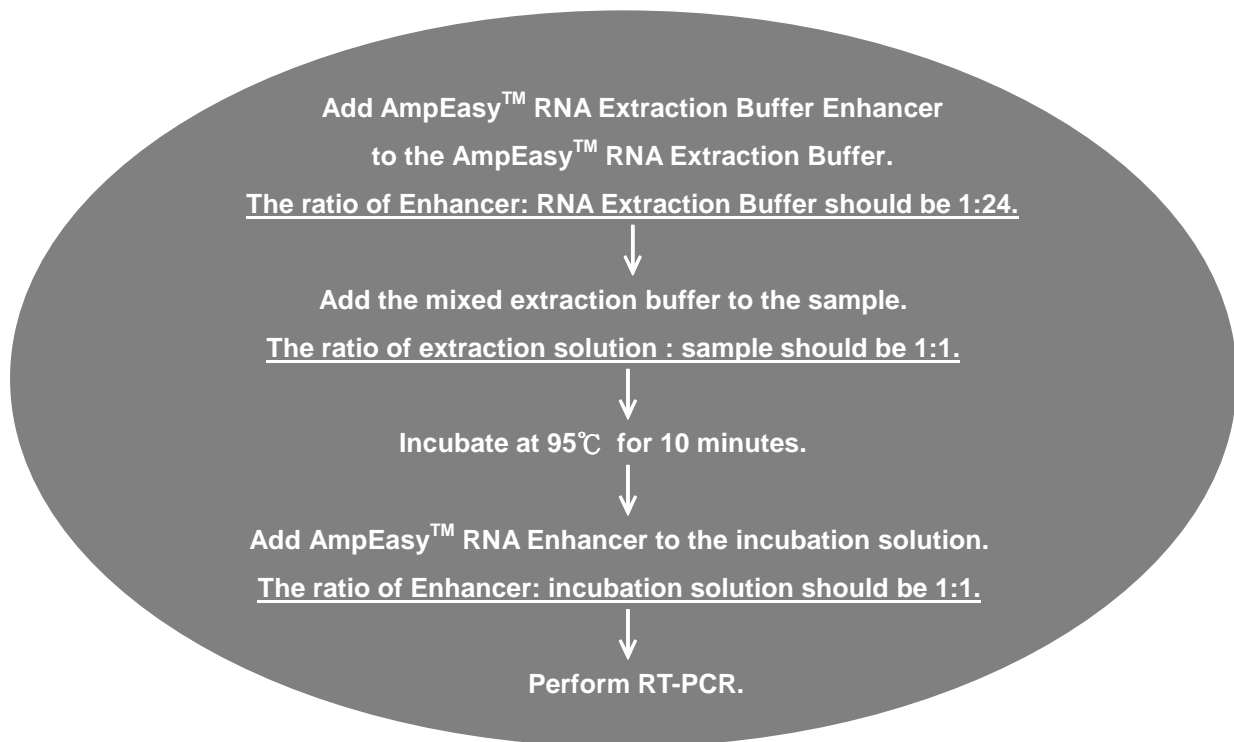
For example: add 50µl of AmpEasy™ RNA Enhancer to 50µl of the incubation solution.

NOTE:

- (1) If the sample is not completely dissolved, spin it down and transfer the supernatant to a new tube.
- (2) The supernatant containing DNA and RNA can be directly used for RT-qPCR.
(primers should ideally be designed to span an exon-exon junction)
- (3) Real Biotech Corp.'s PairFast™ One-Step qRT-PCR Kit (For Probe System) is especially designed for the reverse transcription and real-time PCR amplification of a specific target RNA from either total RNA or mRNA within 22 minutes. It provides highly-sensitive detection of low copy numbers of target genes, as few as 10 copies of RNA template. Please inquire your local distributor for catalog number RR181.

Quick-Start Protocol

Please read the entire important notes and things to do before starting prior to starting.



Related products for downstream applications

Reverse Transcription & RT-PCR		
RR001	RealScript cDNA Synthesis Supermix	50 preps
RR002	RealScript cDNA Synthesis Supermix	100 preps
RR101	RealScript One-Step RT-PCR Kit	50 preps
RR102	RealScript One-Step RT-PCR Kit	100 preps
RR141	RealScript One-Step qRT-PCR Kit (For SYBR Green System w/ROX)	50 preps
RR142	RealScript One-Step qRT-PCR Kit (For SYBR Green System w/ROX)	100 preps
RR161	RealScript One-Step qRT-PCR Kit (For Probe System w/ROX)	50 preps
RR162	RealScript One-Step qRT-PCR Kit (For Probe System w/ROX)	100 preps
RR181	PairFast™ One-Step qRT-PCR Kit (For Probe System)	100 preps