

# Total RNA extraction Quick Guide

## FFPE kit version



### QuickGene-AutoS RNA FFPE kit (AS-RF)



•This sheet is an extract of the kit handbook and manual which state the procedure for extraction of Total RNA from FFPE samples.



•Please read the kit handbook and manual carefully and use this kit correctly.

•Wear appropriate gloves and safety goggles during the experiment.

## Step1 Preparations

Prepare following items for the desired RNA extraction.

### 1 Required materials

QuickGene-Auto12S/24S

QuickGene-AutoS RNA FFPE kit



2.0 ml microtube (for samples)

1.5ml or 2.0ml microtube (for collection of DNA/RNA)

Tip for micropipette (P-200)

Microtube centrifuge

Disposable gloves

Safety goggles

Mask

Tube rack

DNase

Recommended Product: RQ DNase I (Promega M6101)

Nuclease-free Water

200  $\mu$ l micropipette



Tube mixer



## Step2 Protocol

Make sure to follow the instruction below to obtain desired yield.

### 1 Preparation of lysate

Use required amount of shaved FFPE slices (Basically 5 $\mu$ m/slice and 1 to 5 slices).  
If the slices are too much, clogging, decline of yields, and decrease in the precision may happen.  
When it is clogged, try again with fewer slices.

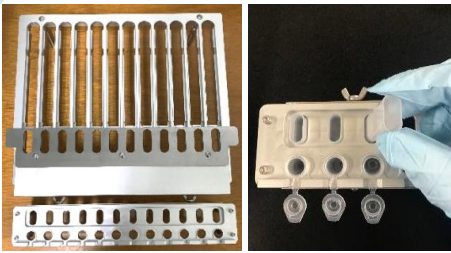
- 1) Put FFPE samples in the 2.0ml microtube.
- 2) Add 5 drops of DRF-01 (approx. 300  $\mu$ L) on the samples.
- 3) Mix samples for 15 seconds by using a mixer.
- 4) Spin-down for 15 seconds with 12,000rpm to gather the sample at the bottom.

In case the sample is left in the upper, please mix and spin-down again.

## 2 Completion of lysis

### 3 Set consumables inside QuickGene-Auto12S/24S

01



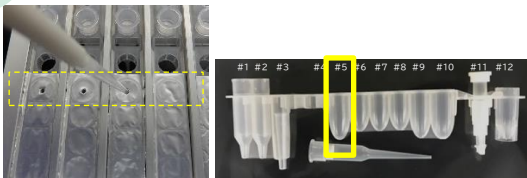
Set collection tubes and waste tubes in the collection holder.

02



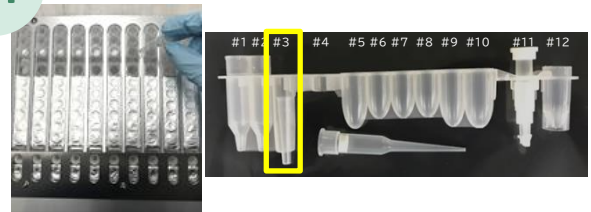
Set reagent strips in the reagent holder with the correct direction.

03



By using 200µL micropipette, make a hole in #5 of the reagent strips which is about the size of top of pipette tip. After that, add 40µL of ERF.

04



Set 1 mL long tip in #3 of the reagent strips. Then close a lid of the reagent holder.

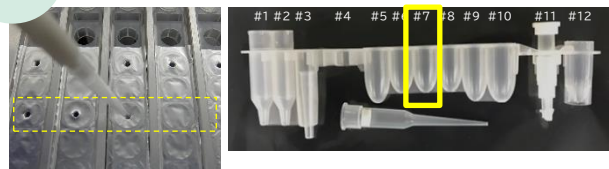
05

Prepare DNase Solution as follows

Recommended Product:  
RQ1 RNase-Free DNase  
(Promega M6101)

1U/µL DNase I	20µL
10×Reaction Buffer	4µL
Nuclease-free Water	16µL
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	40µL

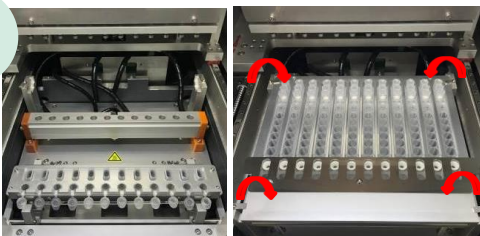
06



By using 200µL micropipette, make a hole in #7 of the reagent strips which is about the size of top of pipette tip. After that, add 40µL of prepared DNase Solution.

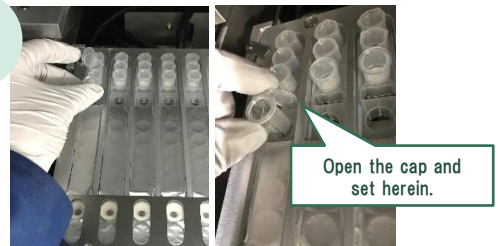
Add the solution straight to the center of the well, allowing it to accumulate at the bottom of the well.

07



Set the collection holder and reagent holder inside the equipment, then fix the holder with 4 stoppers.

08



Set 2mL tubes which is prepared in the step2.1 in the #4 of the reagent strips. Set the cap in the square hole next to #4.

Next step is Extraction.

# Step3 Extraction

Extract genomic DNA using QuickGene-Auto12S/24S.

QuickGene-Auto12S/24S Workflow.

<Preparation for the equipment>

- ① Plug the power cord into the back of the equipment, and turn on the main power with the switch on the back.
- ② Power on with the switch of the front panel.
- ③ After turn on, Figure1 is shown and initial operation is started.
- ④ When the initial operation finished, Figure2 is shown.

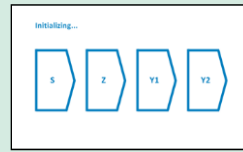


Figure1

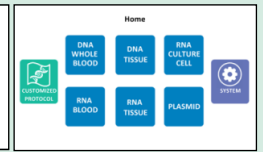
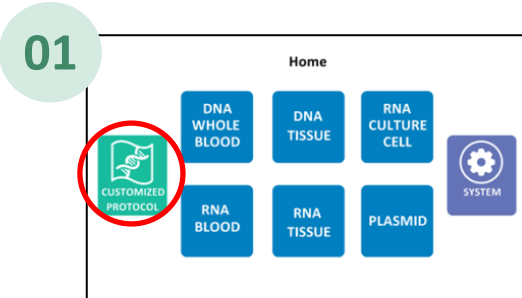
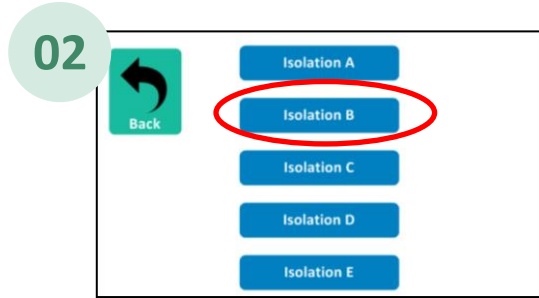


Figure2



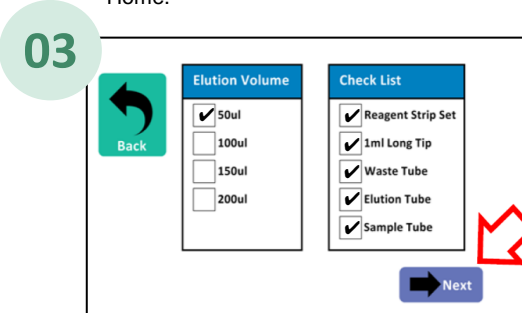
01

Select 「CUSTOMIZED PROTOCOL」 from Home.



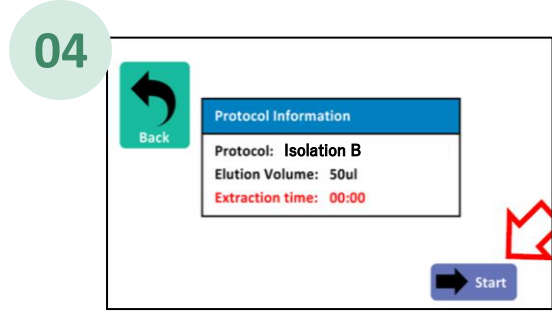
02

Select 「Isolation B」 from protocol.



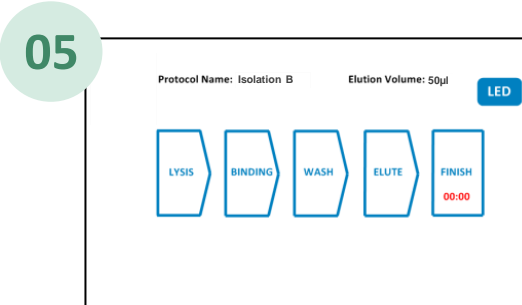
03

Select 50uL as Elution Volume. Confirm consumables, and put a check in the box, then touch Next.



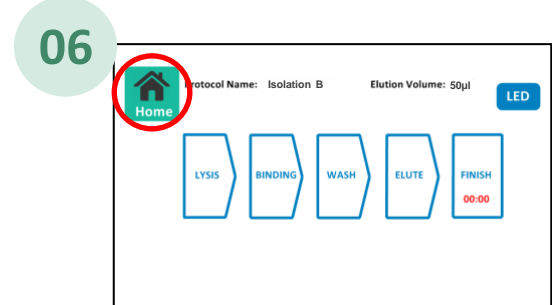
04

Confirm that Protocol is Isolation B and Elution Volume is 50uL, then touch Start.



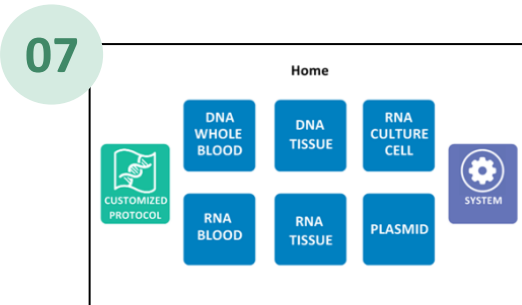
05

Be careful that expected finish time which is shown on the display during operation is different from actual finish time.



06

About 2hours later, when program is finished, home button appears in the upper left of the display. Touch the button and back to Home.



07

Turn off the equipment after above screen is shown.



08

Take out the collection holder from the equipment. Collect the solution which contains nucleic acid from the collection holder.