KURABO

Ver.20-10

Genomic DNA extraction Quick Guide

FFPE kit version

BIOTEC

YOUR PATH TO DISCOVERY

QuickGene-AutoS DNA FFPE kit (AS-DF)

- This sheet is an extract of the kit handbook and manual which state the procedure for extraction of genomic DNA from whole blood.
- Please read the kit handbook and manual carefully and use this kit correctly.
- Wear appropriate groves and safety goggles during the experiment.

Step1 Preparations

Prepare following items for the desired DNA extraction.

1 Required materials

- QuickGene-Auto12S/24S
- QuickGene-AutoS DNA 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 lack

200 µl micropipette

Tube mixer

2 Preparation of separately packed reagents

◆Deparaffinization Reagent (DDF)

Mix it completely before using.

If there is deposition, dissolve with 55℃ and return to room temperature to use it.

Next step is following corresponding protocol.

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 5µm/slice and1 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.

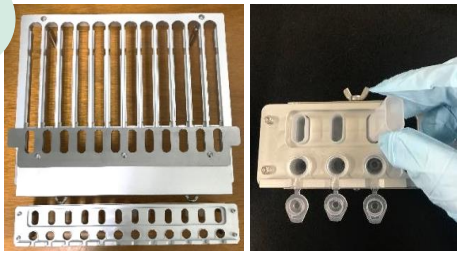
1) Put FFPE samples in the 2.0ml microtube.
2) Add 5 drops of Deparaffinization Reagent on the samples.
3) Mix samples for15 seconds by using a mixer.
4) Spin-down for 15 seconds with 12,000rpm to gather the sample at the bottom.

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

2 Completion of lysis

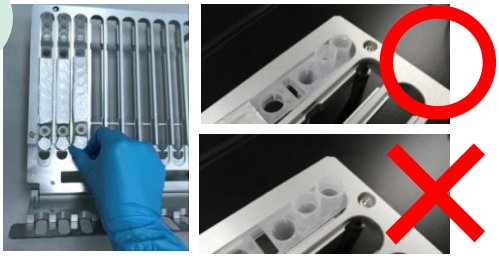
3 Set consumables inside QuickGene-Auto12S/24S

01



Set collection tubes and waste tubes in the collection holder.

02

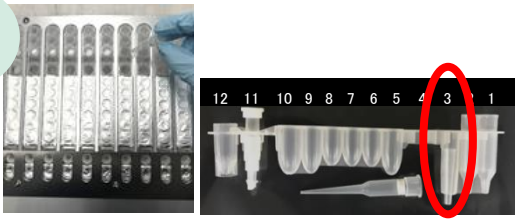


Set reagent strips in the reagent holder.

03

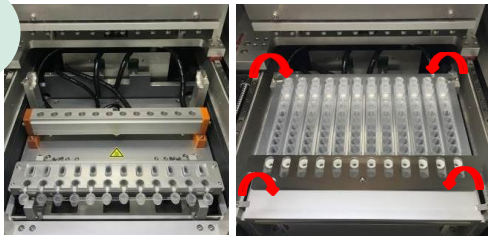
By using 200µL micropipette, make a hole in #6 of the reagent strips which is about the size of top of pipette tip. After that, add EDF.

04



Set 1 mL long tip in #3 of the reagent strips and close the cap.

05



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

06

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＞
①Plug the power cord into the back of the equipment,
and turn on the main power with the switch on the back.
②Power on with the switch of the front panel.
③After turn on, Fifure1 is shown and initial operation is started.
④When the initial operation finished, Figure2 is shown.

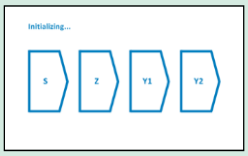


Figure1

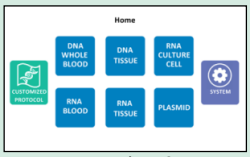
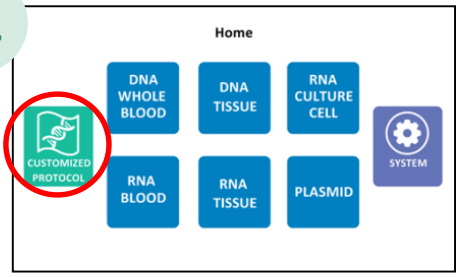


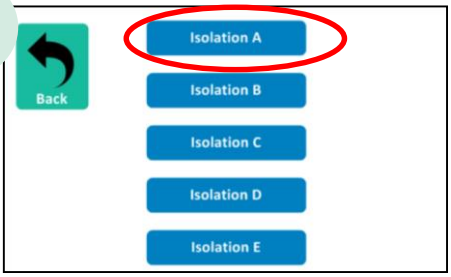
Figure2

01



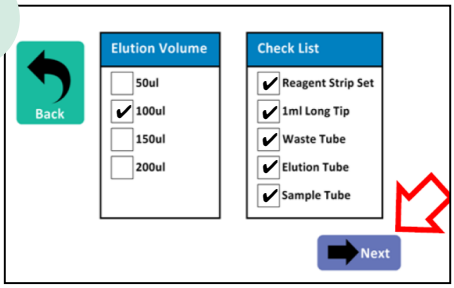
Select「CUSTOMIZED PROTOCOL」from Home.

02



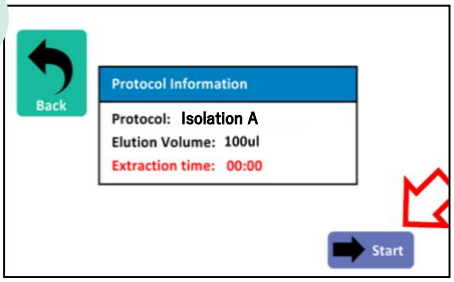
Select「isolation A」from protocol.

03



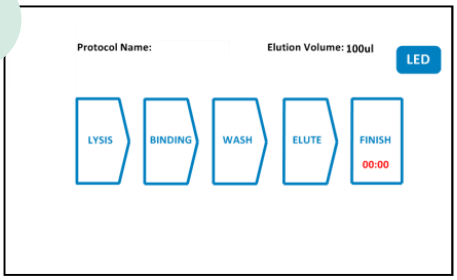
Select 100uL as Elusion Volume.
Confirm consumables, and put a check in the box, then touch Next.

04



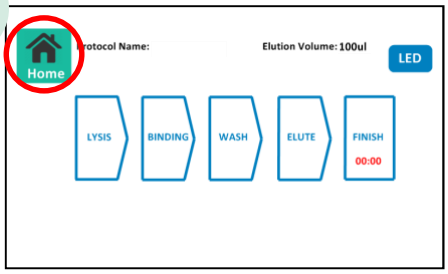
Confirm that Protocol is isolation A and Elusion Volume is 100uL, then touch Start.

05



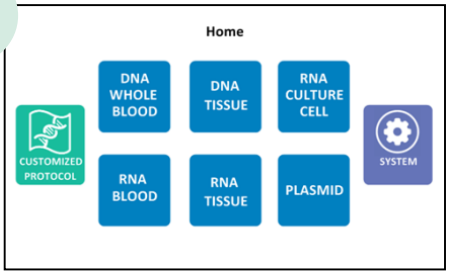
Be careful that expected finish time which is shown on the display during operation is different from actual finish time.

06



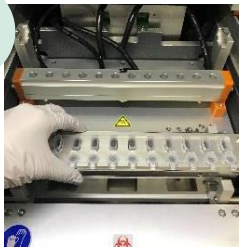
About 2hours and15minutes later, when program is finished, home button is appeared in the upper left of the display.
Touch the button and back to Home.

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.