Veri-Q™ Sample Prep System 16TU-CV19

MiCo BioMed

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No.	Name	Vol.	Quantity	Description	Storage	*Dissolve
1	NPK	22 mg	2 tubes	Proteinase K	RT	Add 1.1ml PBS, Store at 4 °C
2	NCM	550 ug	2 tubes	Carrier molecule	RT	Add 550ul NE, Store at -20 ℃
3	NB	22 ml	1 bottle	Binding buffer	RT	
4	NW1	75 ml	1 bottle	Washing buffer	RT	Add 175ml EtOH
5	NE	100 ml	1 bottle	Elution buffer	RT	
6	PSB	5 ml	1 bottle	Proteinase K Storage buffer	RT	
Plastic	• Add 1	.1ml PBS, sta Elution T (20 ea x	ore at 4°C	Add 550ul NE, store at -	20°C • Add	175ml Ethanol

- PBS buffer (Phosphate-buffered saline) : Less than 200ul of Liquefaction Sample volume
- 1.5 or 2.0 ml tube : Pre-treatment
- Sputum liquefaction solution : Pre-treatment of sample : Lower Airway
- Micro pipette(20,200,1000P), Sterilized Filter Pipette tips
- Table top Centrifuge
- Powder-free gloves
- Vortex Mixer
- Clean bench, Bio Safety Cabinet (BSC)
- Heating Block : You must maintain 65°C before the experiment



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Step 1. How to Use : Setting





POWER ERROR



self-test and initialization is

automatically performed.

When power is supplied to the device, POWER LED would be light up.

Step 2. Pre-Run







Please check "Pre-RUN Required" message from the configuration screen

Place a "Pre-run Cartridge" in an appropriate position of "Sample Rotor."

Pull out the upper tray

Step 3. Placing Elution Tube & Cartridge









Open the lower trav

Place a Waste cartridge

insertion

Insert the Elution cartridge Insert Elution tube Place the Elution Cartridge Make sure the lid of each so it fits in the location for tubes faces outward.

Step 4. Sample Prep : Lysate loading & Starting Device



Sample tubes and close the upper tray.



Press '←' button on the left side of the Configuration menu.

Sample Prep : Processing



Checking & Binding In this procedure, the equipment rotates

the sample rotor and checks the insertion of sample tubes. During the binding process, the binding sample tube is highlighted in blue as shown below.



Step 5. Prep Complete



Open the upper tray and remove the sample tubes.





Open the lower tray, take out the elution tubes containing DNA or RNA sample and store them appropriately.

Please empty the waste solution from the waste cartridge.







Washing tubes.



"Motor Initialize (RUN-INIT)" is shown on the bottom of the LCD.



Place the bottle in a suitable location.



Open the lid after suitably placing the bottle.

Washing 1: NW1 (provided)

Washing 2: Absolute Ethanol (not provided)

Elution : NE (provided)



Do not place the Pre-run cartridge upside down



Pre-run

- A. Press "**Pre-run**" button on the LCD screen. B. If "YES" button is pressed, "Pre-run" begins (It will take about ~80
- seconds.) C. If you hear a **beep sound**, the equipment automatically **finishes** "Pre-run"
- D. Press "YES" button and then, remove "Pre-run Cartridge"
- E. **Remove** buffer solution from the **waste liquid** container. F. Refill the bottle with solution

* Please fill the bottle with solution after Pre-run is finished.

**Please perform pre-run right before starting sample extraction.





Place the lid on the Flution Cartridge. Close by pushing the lower tray again.



Press "Init" image or 'SET' button to initialize the position. (Never perform "Initializing step" after loading the samples.)



Open the upper tray

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Place the Sample tubes into the Sample rotor. Place "Sample tubes" at the same channel number of the "Elution tubes."

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Select appropriate protocol from the menu, and then press "Next→" or "START" button to return to the Configuration menu.

During the washing process, the equipment will inject washing solutions into the sample



Press "E-Volume" image or '^' button. You can select one of 3 extraction volumes.



Elution

In this step, the elution will be gathered in the micro tube which is inserted into the elution cartridge.



Press "START" button or " > Start"

image. The equipment automatically

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operates.

Finish

If the device operation is finished, you will hear a 'beep' sound. And the following image will appear.



Close the lid of the bottle containing solution. Turn off the G2-16TU.



Use the template of Real-time PCR

Strore at 4°C or -20 °C

- # If you want to operate equipment again, follow below procedures.
- A. Press 'SET' button or touch "Init".
- B. Check the error message whether "Motor initialize(Run INIT)" is disappeared or not.
- C. Refill the all buffer bottles.