

### Quick Manual

### - DNA/RNA Purification : Virus -



#### Operation Time

Viral DNA/RNA extraction

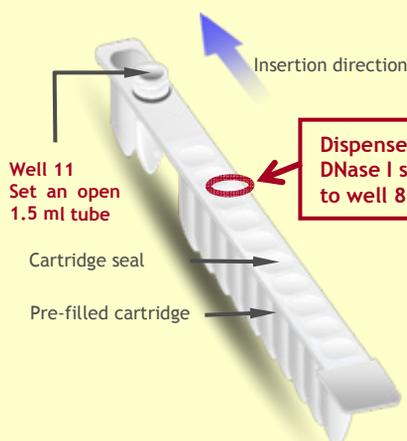
Approx. 40 min (Without DNase I treatment)  
Approx. 65 min (Including DNase I treatment)



Reagent (MagDEA Viral DNA/RNA 200 (GC), Code No. : E7003)



#### Check!!



1. If bubbles are seen in the Reagent cartridge, remove them by tapping the cartridge. Bubbles in the cartridge may disrupt complete aspiration, and may produce more bubbles by mixing. When the droplets of reagent are presented on the seal or on the side wall of well, remove them by shaking gently. In case of finding magnetic particles on the side wall, tilt the cartridge and agitate it gently to remove the particles from the wall before loading.

2. The sample is placed into a 1.5 ml tube (supplied with the kit). When the sample including the solid is treated, the preprocessing is needed.\*1

\*1 Please process the sample by centrifuging or crushing according to the sample type.

Centrifuging : The supernatant is used as a sample.

Crushing : The crushing thing with the crusher (e.g., cryoshocker, beads shocker, etc.) is used as a sample.

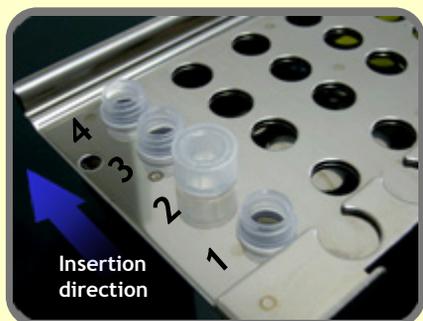
Before loading the sample on the Magtration® System, ensure that no solid phase remains in the sample.

3. If DNase I treatment is needed, dispense of 100 µl DNase I solution to well8 by using pipetter (approximately 40 units)\*2

\*2: If Ambion DNase I is used, a mixture of 20 µl of DNase I solution and 80 µl of 10x DNase buffer is loaded to well8. (If DNase I treatment is needed.)



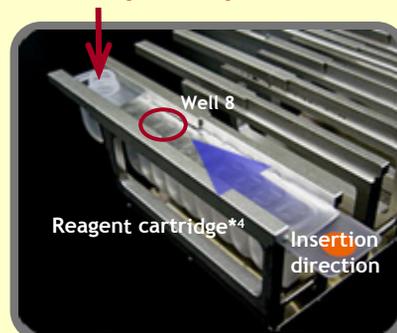
#### Preparation of samples and consumables



Tip / Tube rack

- 1. 1.5 ml tube**  
in a 1.5 ml tube supplied with the kit for collection of the elute
- 2. Tip and Tip holder**  
supplied with the kit
- 3. 2-Propanol\*3 1300 µl**  
in a 1.5 ml tube supplied with the kit
- 4. Sample 200 µl (Serum, Plasma, Swab etc.)**  
in a 1.5 ml tube supplied with the kit

The 1.5 ml tube is set in after the reagent cartridge is loaded on the reagent cartridge rack.



Reagent cartridge rack

\*3: 2-propanol recommendation  
2-Propanol ACS reagent, >99.5% (190764, SIGMA-Aldrich)  
Notice: Please use 2-propanol filled in the glass bottle.

\*4: Instration of reagent cartridge  
Follow the setting direction, Insert the Reagent cartridge in the Reagent cartridge rack until it sounds "click".



# Start of Processing



## Check if the IC card is set.\*

Turn on the power of Magtration System GC series.  
(GC series: 6GC, 12GC, 12GC-UV, 12GC PLUS)

“Run” mode (the protocol name in IC-card is displayed, and then initialized the instrument automatically)

MagDEA 200  
- DNA/RNA Virus -  
12GC PLUS ver.2.0  
Initializing...

Display example

This screen is displayed only “12GC PLUS”. Please refer to “GC Data Station Quick Manual” (12GC PLUS) when you use the barcode reader.

Input Batch Info?  
Yes = RETURN  
Skip = START  
Prev. = ESC

Position Information of consumables are displayed.

Select the elution volume.

Select elution vol.  
1. 50 µl  
2. 100 µl  
Next=1or2, Prev.=ESC

Select DNase I treatment.

DNase I  
1. Yes  
2. No  
Next=1or2, Prev.=ESC

Confirm the purification conditions.

Elution : 50 µl  
DNase I : Yes  
OK=RETURN, Prev.=ESC

Display example

Push **Start** key

Run

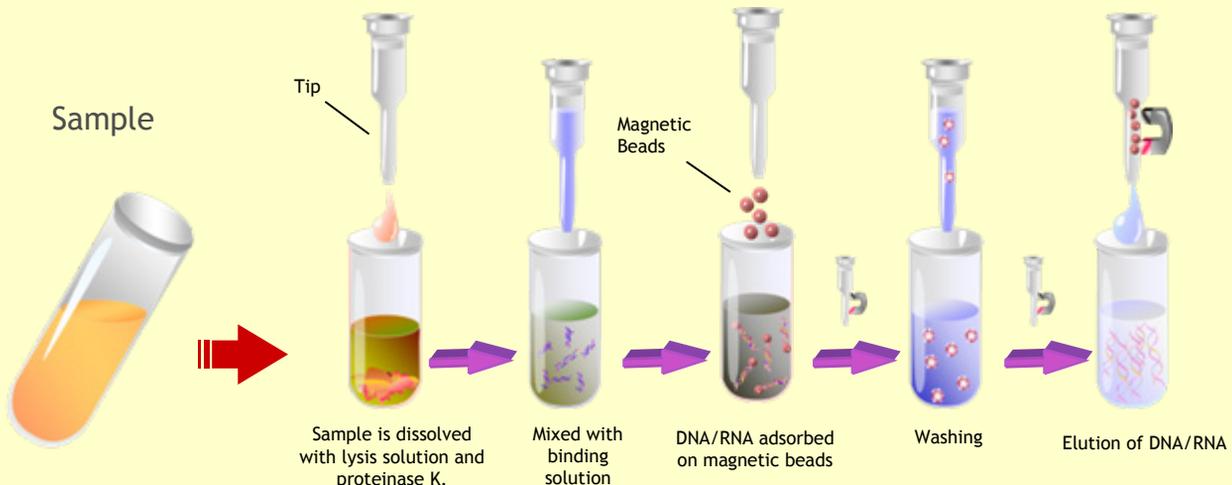
It “beeps” after completion of running.

\*Do Not insert or remove the IC card while the power is on. This may result in damage to the system. Do Not open the front door during operation because the system stops suddenly.

IC card code No.  
17603 : 6GC    17303 : 12GC-UV  
17203 : 12GC    17503 : 12GC PLUS



# Extraction Process - DNA/RNA Purification -



The preprocessing (centrifuge or crushing) is needed according to the sample type.

: Magnetic separation of magnetic beads

Quick manual -E7003\_MagDEA Viral DNA/RNA 200 (GC)\_E\_120127