

### Quick Manual

- Genome DNA Purification : Non-Whole Blood sample -

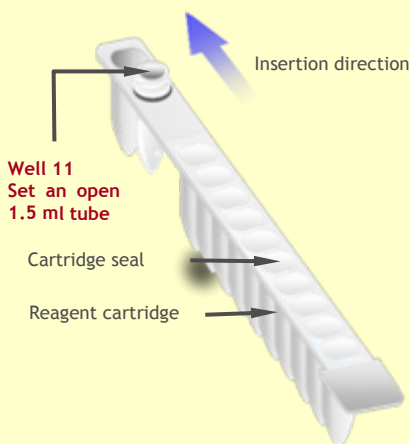


#### Operation Time

DNA extraction Approx. 40 min



#### Reagent (MagDEA DNA 200 (GC), Code No. : E7001)



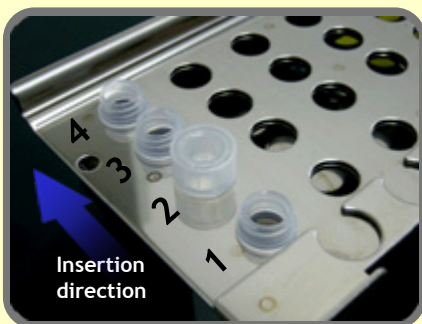
#### Check!!

1. 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 particles from the wall before loading.
2. 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 droplets 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.
3. Do Not forget to load 1.5 ml tube in 11th hole of the cartridge. (see the left figure)

Store this reagent at room temperature (20-30°C). Avoid high temperature, high humidity, and vibration. Preserve this reagent with the aluminum seal up.



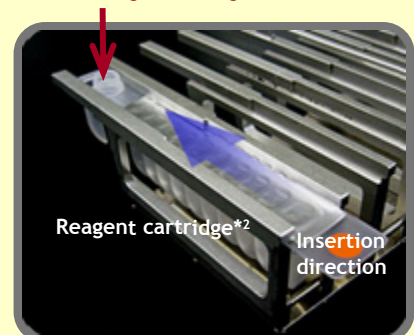
#### Preparation of samples and consumables



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\*1 1300 µl**  
in a 1.5 ml tube supplied with the kit
4. **Sample 200 µl**  
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

\*1: 2-propanol recommendation  
2-Propanol ACS reagent, >99.5% (190764, SIGMA-Aldrich)  
Notice: Please use 2-propanol filled in the glass bottle.

\*2: 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 Standard -  
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

Confirm the purification conditions.

Elution : 50 µl  
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.

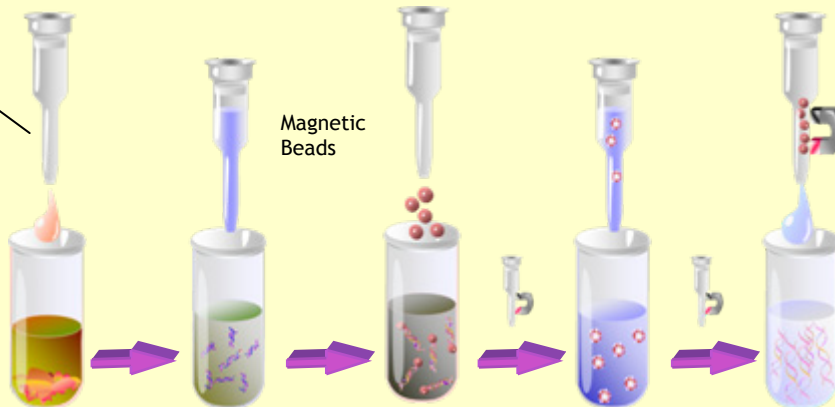
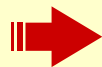
IC card code No.  
17691 : 6GC      17391 : 12GC-UV  
17291 : 12GC      17591 : 12GC PLUS

# Extraction Process - Genomic DNA Purification -

Sample

Tip

Magnetic Beads



Sample is dissolved with lysis solution and proteinase K.

Mixed with binding solution

DNA adsorbed on magnetic beads

Washing

Elution of DNA

: Magnetic separation of magnetic beads



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