



Magtration System 12GC Plus

Automated Nucleic Acid Isolation and Purification System

Quick Manual

~ Genomic DNA Purification ~



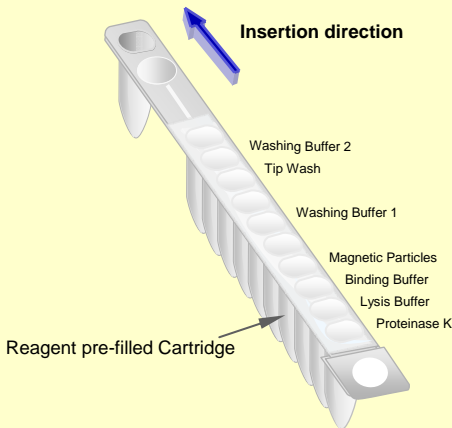
Operation Time

Genomic DNA Isolation from Whole Blood : about 40 minutes



Reagent (Magtration® - MagaZorb® DNA Common Kit 200N : Code No. E2005)

IC Card (Magtration® - MagaZorb® DNA / Common : Code No. I-1555)



Check!!

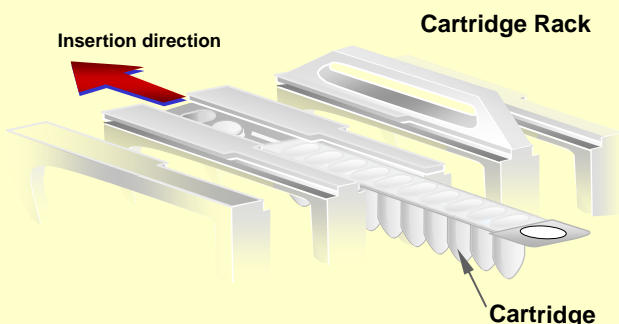
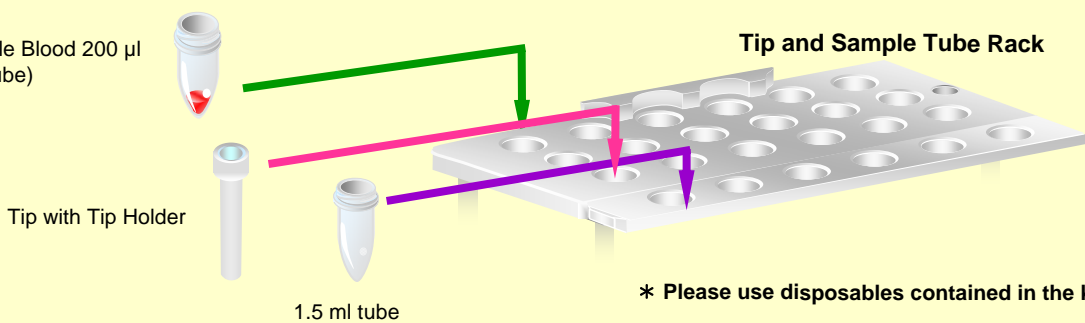
To ensure all reagents are settled on the well bottoms, tap cartridge lightly. If needed, make upside-down the upper and lower sides of a reagent bottle and shake lightly, then upside down and swing down.

Store the reagents at room temperature(20-30°C), and avoid high temperature and high humidity circumstance. Do not store them upside down. Do not freeze.



Preparation of Sample and Supplies

Sample : Whole Blood 200 µl
(1.5 ml open tube)



- * Place the tip in the Tip holder in Tip rack before setting on this machine.
- * Please use the recommended screwed-cap tube.
- * 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 Magration System 12GC Plus.

Starting menu is displayed on LCD automatically.
And push "START" Key.

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

Select an entry of bar-code information with bar-code reader.

Please refer to "GC Data Station Quick Manual" when you use the bar-code reader.

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

Choose the elution volume.

ELUTION VOLUME
1: 100ul 3: 50ul
2: 200ul
NEXT=1,2or3 Prev=ESC

START

Push 1, 2 or 3 Key

Push ↩ Key

Push START Key

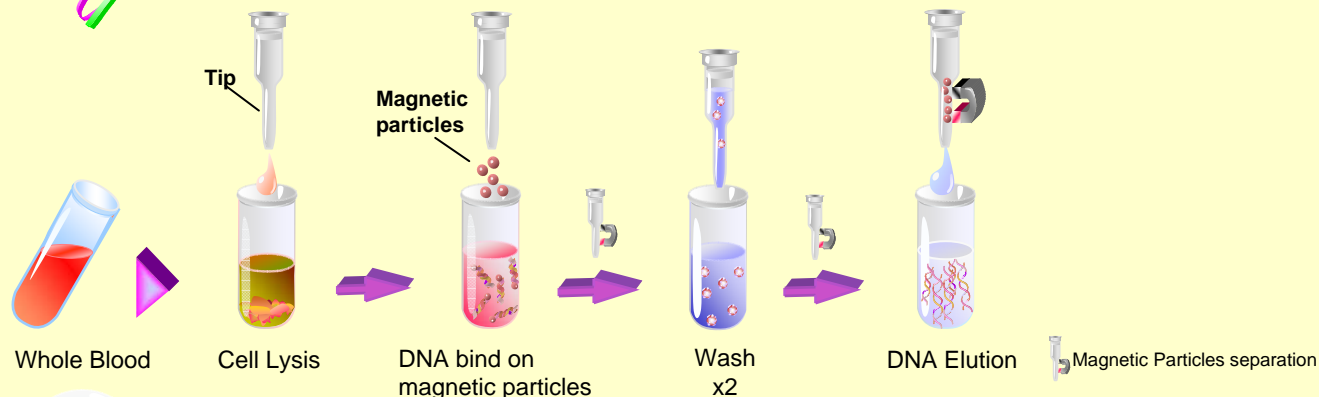
Run

* It "Beeps" after completion of RUN.

NOTE: Do Not insert and remove the IC card, while the power is on.



Principle of Extraction



Trouble Shooting

Trouble	Possible causes	Counter measures by causes
Low yield	Sample Condition	Check if temperature or place stored were adequate, or the run was performed after it became to room temperature. Try another run using new fresh samples.
	Storage condition of reagents	Check temperature and circumstance of storage place for any abnormality. Do not allow reagents to freeze. Vibration to the magnetic particles may affect the reagents under excessive vibration. Try another run using new fresh samples.
	Others	Stored samples in refrigerator may give lower yields depending on the period. Try another run using new fresh samples.
Inadequate PCR result	Too long target size	The average length of isolated DNA is >20kb and gives no problem for general PCR process. But too long target sized DNA may not be amplified adequately.
	Impurity of original sample	Impurity of original sample (whole blood etc.) may cause detrimental effects on PCR.