

Magtration System 1 2 GC

Automated Nucleic Acid Isolation and Purification System

Quick Manual

~ Genomic DNA Purification ~



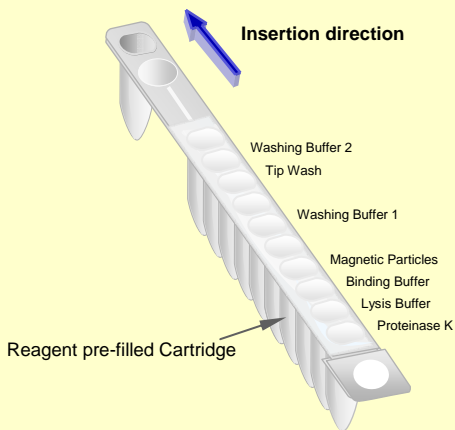
Operation Time

Genomic DNA Isolation from Whole Blood : about 40 minutes



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

IC Card (Magtration® - MagaZorb® DNA / Common : Code No. I-1255)



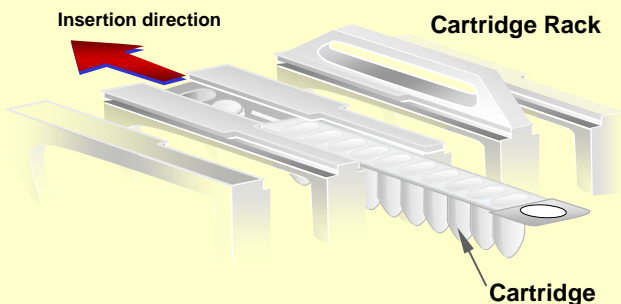
Check!!

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.

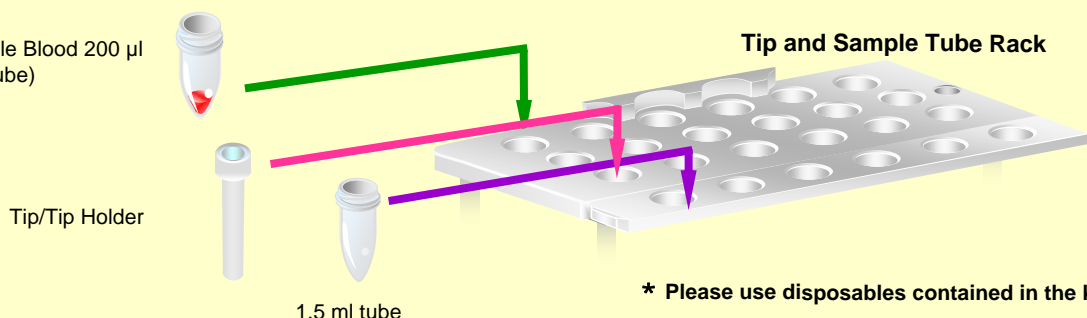


Preparation of Sample and Supplies



* Follow the setting direction, insert the Cartridge in the Cartridge Rack until it sounds "click".

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



* Please use disposables contained in the kit.



Start of Processing

Check if the IC Card is set. (*)

Turn on the power of Magtration System 12GC

Starting menu is displayed on LCD automatically

Push **START** Key

“Run” mode
(protocol name and Ver. in
IC Card is displayed.)

MAGTRATION DNA
-- Common-N --
Ver1.1
Initializing...

Choose
the elution
volume.

SAMPLE 200ul
1: ELUTION 100ul
2: ELUTION 200ul
NEXT=1or2, Prev=ESC

Push Key

Push **START** Key

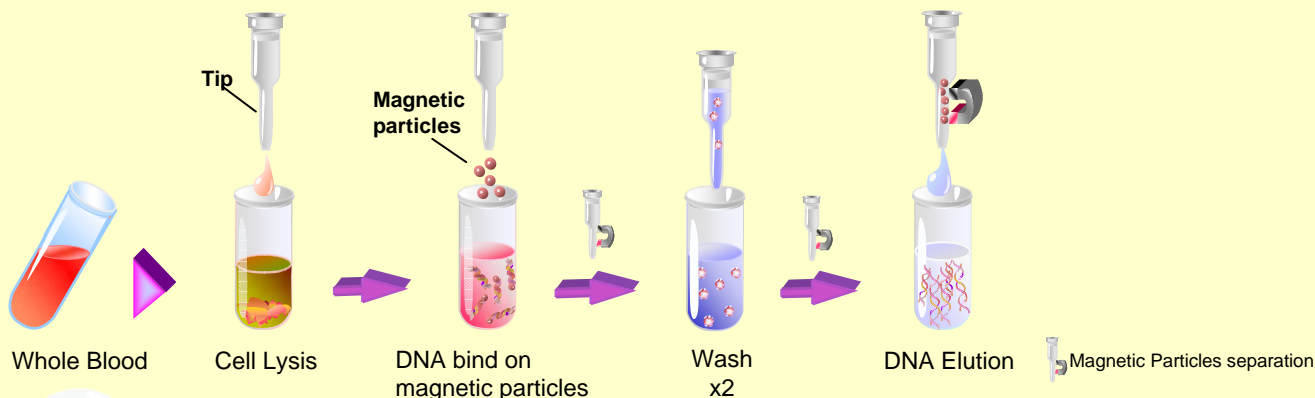
Run

It “beeps” after completion of RUN.

* Do not insert and remove the IC Card
while the power is on. This may result in
damage to the system.



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.