

MagListo™ cfDNA Extraction Kit for ExiPrep™ 96 Lite

I Before You Begin

- 1) Completely dissolve one vial of **Proteinase K** in **1,250 µl** of nuclease-free water. For short term storage, dissolved Proteinase K should be stored at **4°C**. For long term storage, it is recommended to aliquot the enzyme into separate tubes and store at **-20°C**.
- 2) All of **CL buffer**, **CB buffer**, and **CW1 buffer** contain chaotropic salt. You should take appropriate laboratory safety precautions and wear gloves when handling.
- 3) Prepare isopropanol (not provided).

II Sample Preparation

A. cfDNA Extraction from Plasma/Serum/Urine/Saliva

- 1) Apply the collected samples (~4 ml) to a 50 ml tube.
- 2) Add a **proper volume** of **Proteinase K** per 1 ml of sample and mix well.
- 3) Add a **proper volume** of **CL Buffer** to the collected sample tube and mix well.

	Volume			
Plasma/Serum/Urine/Saliva	1 ml	2 ml	3 ml	4 ml
Proteinase K	40 µl	80 µl	120 µl	160 µl
CL buffer	1 ml	2 ml	3 ml	4 ml

- 4) Incubate at **60°C** for 10 min in a water bath or a heat block.
- 5) Transfer the lysate to a new 24-well dome plate.

III Loading the Kit to the Instrument

- 1) Add a **proper volume** of **Isopropanol** to the 24-well dome plate containing lysate using multichannel pipette.

	Volume			
Plasma/Serum/Urine/Saliva	1 ml	2 ml	3 ml	4 ml
Isopropanol	375 µl	750 µl	1,125 µl	1,500 µl

- 2) Aliquot the solution from **MagListo™** cfDNA Extraction Kit to each of the new 24 well-dome plate using multichannel pipette.

Cartridge No.	Solution	Volume
①	Lysate + CL Buffer + Isopropanol	Up to 9.5 ml
②	Magnetic Nano Bead solution	200 µl
③	CB Buffer	4 ml
④	CW1 Buffer	4 ml
⑤	W2 Buffer	4 ml
⑥	100% Ethanol	4 ml
⑦	EA Buffer	100 µl

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- 3) Press the 'Plate' Button on the instrument.
- 4) Place the Magnetic Rod Cover to the Magnetic Rod.
- 5) Place the plate onto the proper position of the base plate.
- 6) Press the 'Standard Protocol' Button and select '**K-3619_cfDNA (V1.0)**'.
- 7) Press the 'Run' Button to start the selected protocol.