MagListo™ Universal RNA Extraction Kit for *ExiPrep*™96 Lite

Ⅰ Before You Begin

1) Add 10 µl of β-mercaptoethanol per 1 ml of RD Buffer.
2) Prepare 80% and 100% of additional ethanol (not provided).

Ⅱ Sample Preparation

A. RNA Extraction from Cultured Cell

1) Centrifuge the cultured cells (10^4-10^6 cells) for 5 min at 300 x *g*. Discard the supernatant carefully without disturbing the pellet.
2) Add **500 µl** of **RD Buffer** to the cell pellet and mix thoroughly by vortexing.
3) Transfer the lysate to a new 96-well dome plate carefully without disturbing the pellet.

B. RNA Extraction from Plant Tissue

1) Add **500 µl** of **RD Buffer** to a maximum of 100 mg tissue powder and vortex vigorously.
2) Incubate at 60℃ for 1-3 min.
3) Centrifuge at full speed for 2 min.
4) Transfer the supernatant to a new 96-well dome plate carefully without disturbing the pellet.

C. RNA Extraction from Animal Tissue

1) Disrupt (or homogenize) the sample (20–30 mg), place them in a 1.5 ml tube, and add **500 µl** of **RD Buffer**.
2) Centrifuge the lysate at full speed for 3 min.
3) Transfer the supernatant to a new 96-well dome plate carefully without disturbing the pellet.

Ⅲ Loading the Kit to the Instrument

1) Add **300 µl** of **100% Ethanol** to a 96-well dome plate containing lysate using multichannel pipette.
2) Aliquot the solution from *MagListo*™ Universal RNA Extraction Kit to each of the new 96-well dome plate using multichannel pipette.

Cartridge No.	Solution	Volume
①	Lysate + Ethanol	Up to 800 µl
②	Magnetic Nano Bead solution	100 µl
③	RWM1 Buffer	800 µl
④	RWA2 Buffer	800 µl
⑤	80% Ethanol	800 µl
⑥	100% Ethanol	1 ml
⑦	ER 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-3613_Universal RNA (V1.0)'**.
7) Press the 'Run' Button to start the selected protocol.