MagCore® Cultured Cells DNA Kit

For extraction of genomic DNA from cultured cells and amniotic fluid. Applicable Models : HF16, Compact, HF48, Super, HF16 Plus, Plus II

Cartridge Code 110

Cat.No. MCC-01 // MCC-02

Kit Contents

Check that the following parts are included in addition to the main unit:

36 pcs.
36 sets.
36 pcs.
36 pcs.
1 pcs.
1 pcs.

Cat.No. MCC-02 Contents:
Pre-filled Cartridge Reagent
Pipet Tip plus Holder Set
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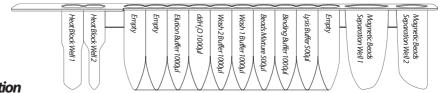
Pipet Tip pius Holaer Set	100 sets.
Sample Tube	100 pcs
Elution Tube	100 pcs.
Proteinase K(11mg)	2 pcs
PK Storage Buffer	2 pcs.

.96 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Proteinase K should be stored at 2-8 °C upon arrival.
- 3. Shelf Life: 18 Months.

Cartrige Contents:



Description

MagCore® Cultured cells DNA Kit is designed to extract genomic DNA from up to 5x10⁶ cultured cells via MagCore® autoextraction instrument. The kit contains all required reagents and labware for automated purification using magnetic-particle technology. Easy select program code number 110 in MagCore® and combine using MagCore® Cultured Cells DNA Kit to extract high quality genomic DNA.

Applications

Using magnetic-particle technology to purify genomic DNA from 5x10⁶ cultured cells. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting, etc.

Preparation Before Using

- Add 1.1ml PKStorage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 2-8 ℃
- 2. Ensure PBS buffer have been prepared for resuspend cell pellet.

Protocol

Sample Preparation

A. Cells grown in suspension

Cells grown in suspension (up to 5 x 10⁶ cells). Determine the number of cells. Centrifuge the appropriate number of cells for 5 min. at 300 x g in a 1.5 ml microcentrifuge tube (not provided). Remove the supernatant completely and discard. Continue with MagCore® Operation step 1.

B. Cells grown in a monolayer

Cells grown in a monolayer (up to 5×10^6 cells). Cells grown in a monolayer can be detached from the culture flask by either trypsinization or using a cell scraper.

To trypsinize cells:

Determine the number of cells. Aspirate the medium and wash cells with PBS (not provided). Aspirate the PBS, and add 0.10-0.25% trypsin. After cells have detached from the dish or flask, collect them in medium, and transfer the appropriate number of cells(up to 5×10^6 cells) to a 1.5 ml microcentrifuge tube (not provided). Centrifuge for 5 min. at $300 \times g$. Remove the supernatant completely and discard taking care to not to disturb the cell pellet. Continue with MagCore® Operation step 1.

Using a cell scraper:

Detach cells from the dish or flask. Transfer the appropriate number of cells (up to 5 x 10⁶ cells) to a 1.5 ml microcentrifuge tube and centrifuge for 5 min. at 300 x g. Remove the supernatant completely and discard taking care to not to disturb the cell pellet. Continue with MaqCore® Operation step 1.

MagCore® Operation

- 1. Resuspend cell pellet with PBS Bufferto a final volume of 200 μl.
- 2. Transfer cell mixture 200 ul and add 20 ul Proteinase Kinto the MaaCore® Sample Tubes.
- 3. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16, Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack (see page 3-10)
- 5. Run Code 110 program at MagCore®.

Amniotic Fluid Protocol

Sample Preparation

- Harvest cells from 10~15 ml amniotic fluid of 16~18 weeks by centrifugation for 10 minutes at 3000 rpm and discard the supernatant.
- Add 200µIGT Buffer (not provided) to the tube and resuspend the cell pellet, then transfer mixture to new microcentrifuge tube.
- 3. Add 5~10µl ProteinaseK (10mg/ml) to the sample. Vortex for 5 seconds to mix sample.
- 4. Incubate at 56°C for 10 minutes until the sample lysate is clear. During incubation, invert the tube every 3 minutes.
- 5. Spin down the sample and apply for MagCore®.