

FavorPrepTM Blood Genomic DNA Extraction Mini Kit

Cat.No. : FABGK 001 FABGK 001-1 FABGK 001-2

Spical Protocol for Extraction of DNA from Amniotic Fluid:

- 1. Transfer up to $1 \sim 3$ ml amniotic fluid to a entrifuge tube (not provided). Centrifuge at $10,000 \times g$ for 5 min then remove the supernatant.
- 2. Wash the cell pellet with 1 ml of PBS. Centrifuge at 10,000 x g for 3 min then remove the supernatant completely.
- 3. Add 200 µl of PBS and resuspend the cells by pipetting. Transfer the sample mixture to a 1.5 ml microcentrifuge tube. (not provided)
- 4. **(Optional)**: If RNA-free genomic DNA is required, add 4 µl of 100 mg/ml RNase A to the sample and incubate for 2 min at room temperature.
- 5. Add 20 µl Proteinase K and 200 µl FABG Buffer to the sample. **Mix thoroughly by pulse-vortexing.** Do not add Proteinase K directly to FABG Buffer.
- 6. Incubate at 60 °C for 15 minutes to lyse the sample. **During incubation, vortex the sample every 3-5 minutes.**
- 7. Centrifuge the tube at 10,000 x g for 3 min and transfer the clarified supernatant to a new 1.5 ml microcentrifuge tube. (not provided)
- 8. Add 200 µl of ethanol (96-100 %) to the sample mixture. Mix thoroughly by pulse-vortexing for 30 sec.
- 9. Briefly spin the tube to remove drops from the inside of the lid.
- 10. Place a FABG Mini Column in a Collection Tube. Transfer the sample mixture (including any precipitate) carefully to the FABG Mini Column. Centrifuge at 8,000 x g for 30 sec then place the FABG Mini Column to a new Collection Tube.
- 11. Wash the FABG Mini Column with 500 µl W1 Buffer by centrifuge at 8,000 x g for 30 sec then discard the flow-through.
- 12. Wash the FABG Mini Column with 750 µl Wash Buffer by centrifuge at 8,000 x g for 30 sec then discard the flow -through.
 - Make sure that ethanol has been added into Wash Buffer when first open.
- 13. Centrifuge the FABG Mini Column at full speed (~18,000 x g) for an additional 3 minutes to dry the column.
- 14. Place the FABG Mini Column to Elution Tube.
- 15. Add 100 \sim 200 μ l of Elution Buffer or ddH₂O (pH 7.5- 9.0) to the membrane center of FABG Mini Column. **Stand FABG Column for 3 minutes.**
 - **Important Step!** For effective elution, make sure that the elution solution is dispensed onto the membrane center and is absorbed completely.
- 16. Centrifuge at full speed (~18,000 x g) for 1 min to elute total DNA