

FavorPrep™ Tissue Genomic DNA Extraction HE Mini Kit

Kit Contents

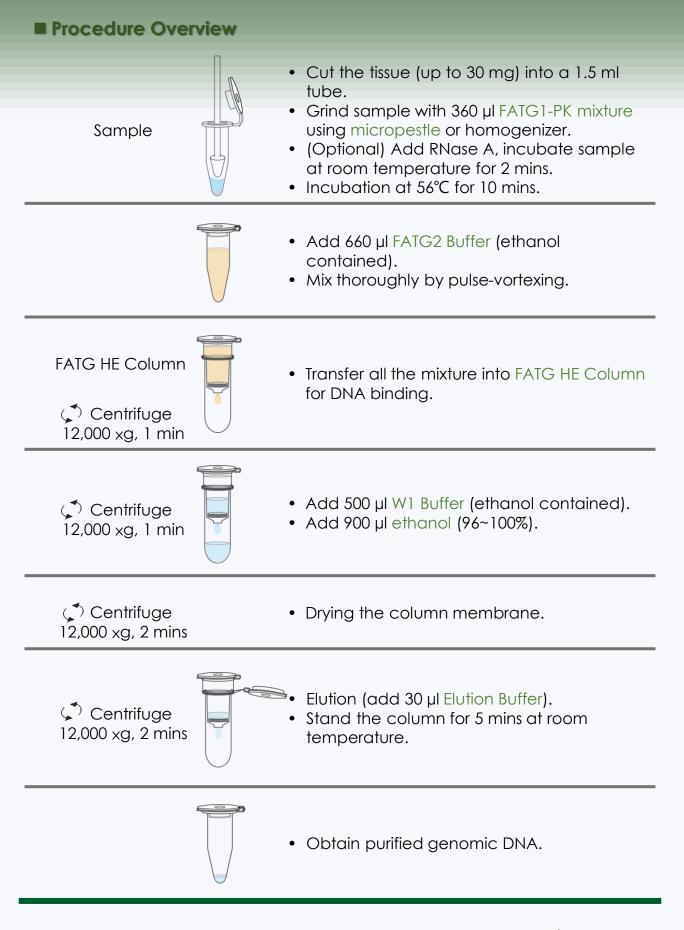
Cat. No.	FATG103-004 (4 Preps)	FATG103-050 (50 Preps)	FATG103-100 (100 Preps)
FATG1 Buffer	1.5 ml	20 ml	40 ml
FATG2 Buffer (Concentrate)▲	1.5 ml	20 ml	40 ml
W1 Buffer (Concentrate)	1.3 ml x 2	22 ml	44 ml
Elution Buffer	0.5 ml	5 ml	7 ml
Proteinase K (Liquid)	150 µl	1600 µl	1600 µl x 2
FATG HE Column	4 pcs	50 pcs	50 pcs x 2
Collection Tube	8 pcs	100 pcs	100 pcs x 2
Elution Tube	4 pcs	50 pcs	100 pcs
Micropestle	4 pcs	50 pcs	50 pcs x 2
User Manual	1	1	1
Preparation of FATG2 Buffer and W1 Buffer by adding 96~100% ethanol.			
Volume of Ethanol for FATG2 Buffer 🔺	1.5 ml	20 ml	40 ml
Volume of Ethanol for W1 Buffer	0.5 ml	8 ml	16 ml

All kit components are shipped at room temperature and should be stored at room temperatures between $15\sim25^{\circ}$ C.

Specification

Format/Principle	Spin Column (silica matrix)
Binding Capacity	≤125 µg DNA/Column
Operation Time	<45 mins
Sample Size	≤30 mg Tissue
DNA yield	≤30 µg
Elution Volume	30 µl







Preparation Before Starting

- 1. Add indicated volume of ethanol (96~100%) into FATG2 Buffer and W1 Buffer, mix well and store at room temperature.
- 2. Check **FATG1 Buffer** for precipitates before use. If precipitates are observed, warm-up FATG1 Buffer at 37°C until precipitates are completely dissolved.
- 3. Additional materials: 96~100% ethanol, RNase A (Optional).
- 4. Set up a water bath or dry bath at 56°C and preheat the Elution Buffer to 56°C for elution step.
- 5. All centrifugation steps should be performed at **12,000 xg** at room temperature.
- 6. Fresh preparation of **FATG1-PK mixture**, premix 330 µl FATG1 Buffer, 30 µl Proteinase K and 8 µl of 50 mg/ml RNase A (Optional, If RNA-free genomic DNA is required) per sample before execute DNA extraction.

General Protocol

- 1. Cut tissue sample (up to 30 mg) in a microcentrifuge tube (not provided). Add 360 µl FATG1-PK mixture to the tube.
- 2. Use provided **Micropestle** or homogenizer to grind the tissue sample. Mix thoroughly and spin down.
- 3. (Optional) If RNase A was added, incubate sample at room temperature for 2 mins.
- 4. Incubate mixture at 56°C for 10 mins until the tissue is lysed completely. Vortex occasionally during incubation.
- 5. Add 660 µl **FATG2 Buffer** (ethanol contained) to the sample mixture, mix thoroughly by pulse-vortexing.
- 6. Placed a **FATG HE Column** in a **Collection Tube**, then transfer all mixture carefully into the FATG HE Column.
- 7. Centrifuge for 1 min. Discard flow-through and place the FATG HE Column in a new Collection Tube.
- 8. Add 500 µl **W1 Buffer** (ethanol contained) to the FATG HE Column. Centrifuge for 1 min then discard flow-through.
- 9. Add 900 µl **ethanol** (96~100%) to the FATG HE Column. Centrifuge for 1 min then discard flow-through.
- 10. Centrifuge for 2 mins to dry the membrane. Discard flow-through and collection tube.
- 11. Place the **FATG HE Column** in an **Elution Tube**, then add 30 µl prewarmed **Elution Buffer** or ddH₂O (pH 7.5~9.0) directly onto the membrane. Stand the FATG HE Column for 5 mins.
 - **Important step!** For effective elution, ensure that the elution solution is dispensed onto the membrane center and absorbed completely.
- 12. Centrifuge for 2 mins to elute DNA.

For more product information, please visit https://www.favorgen.com/ For technical assistance, please email us at Technical@favorgen.com

