



FavorPrep™ Blood Genomic DNA Extraction HE Mini Kit

■ Kit Contents

Cat. No.	FABG1030 (4 Preps)	FABG1033 (50 Preps)	FABG1034 (100 Preps)
FABG Buffer	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	1 600 µl	1 600 µl x 2
HE columns	4 pcs	50 pcs	50 pcs x 2
HE Collection Tubes	8 pcs	100 pcs	100 pcs x 2
Elution Tubes	4 pcs	50 pcs	100 pcs
User Manual	1	1	1
Preparation of W1 Buffer by adding 96~100% ethanol.			
Volume of Ethanol for W1 Buffer ▲	0.5 ml	8 ml	16 ml

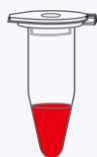
All kit components are shipped at room temperature and should be stored at room temperature between 15~25°C.

■ Specification

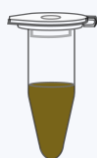
Format/Principle	Spin column (Silica matrix)
Binding Capacity	≤125 µg DNA/Column
Operation Time	<45 mins
Sample Size	≤300 µl whole blood or buffy coats
DNA yield	4~12 µg/300 µl whole blood
Elution Volume	30 µl

■ Procedure Overview

Sample



- Load 300 μ l sample.
- (Optional) Add RNase A.
- Cell lysis (30 μ l **Proteinase K** and 330 μ l **FABG Buffer**) at 60°C for 15 mins (vortex per 3~5 mins).



- Incubate the sample mixture at room temperature for 5 mins.
- Add 330 μ l **ethanol** (96~100%).

HE Column



↺ Centrifuge
12,000 xg, 1 min

- Transfer the mixture into the **HE Column** for DNA binding.



↺ Centrifuge
12,000 xg, 1 min

- Add 500 μ l **W1 Buffer** (ethanol contained).



↺ Centrifuge
12,000 xg, 2 mins

- Add 500 μ l **ethanol** (96~100%) and dry the column membrane.



↺ Centrifuge
12,000 xg, 1 min

- Add 30 μ l **Elution Buffer**.
- Stand the column for 5 mins.
- Obtain purified genomic DNA.

■ Preparation Before Starting

1. Add the indicated volume of ethanol (96~100%) into the **W1 Buffer**, mix well, and store at room temperature.
2. Additional materials: 96~100% ethanol, RNase A (Cat. No. FARA2093, optional).
3. Set up a water bath or dry bath at 60°C and preheat the **Elution Buffer** to 60°C for the elution step.

■ General Protocol

1. Load 300 µl sample (whole blood or buffy coat) into a microcentrifuge tube (not provided).
 - If the sample volume is less than 300 µl, add the appropriate volume of PBS.
2. **(Optional)** If RNA-free genomic DNA is required, add 12 µl of 50 mg/ml RNase A (not provided). Mix thoroughly and incubate at room temperature for 2 mins.
3. Add 30 µl **Proteinase K** and 330 µl **FABG Buffer** into the sample mixture. Mix thoroughly by vortexing or pipetting.
 - **DO NOT** add proteinase K directly into FABG buffer.
4. Incubate the mixture at 60°C for 15 mins to lyse the sample. During incubation, vortex the sample every 3~5 mins interval. Incubate the sample mixture at room temperature for 5 mins.
5. Add 330 µl ethanol (96~100%) to the sample mixture. Mix thoroughly by pulse-vortexing.
6. Place an **HE Column** in an **HE Collection Tube**, then transfer all mixture carefully into the HE Column.
7. Centrifuge at 6,000 xg for 1 min. Discard the flow-through and place the HE column in a new HE Collection Tube.
8. Add 500 µl **W1 Buffer** (ethanol contained) to the HE Column. Centrifuge at 12,000 xg for 1 min then discard the flow-through.
9. Add 500 µl ethanol to the HE Column. Centrifuge for 2 mins to dry the membrane. Discard flow-through and HE Collection Tube.
 - **Important step!** Don't let the tip of the column touch the flow-through. If in doubt, spin again to remove all residual ethanol.
10. Place the 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 HE column for 5 mins.
 - **Important step!** For effective elution, ensure that the elution solution is dispensed onto the membrane center and absorbed completely.
11. Centrifuge at 12,000 xg for 2 mins to elute the DNA.

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