

# VioFast™ Blood & Cell Genomic DNA Extraction System

GBC1001 50 prep / kit

GBC1002 250 prep / kit

Product Contents		
	GBC1001	GBC1002
B/T Genomic Mini Column	50 pcs	250 pcs
Collection Tube	50 pcs	250 pcs
RL Buffer	80 mL	200 mL x2
BX Buffer	25 mL	125 mL
WS Buffer	15 mL	30 mL x2
RNase A (20mg/mL)	1.1mL	1.1 mL x5

## Shipping and Storage

VioFast™ Blood & Cell Genomic DNA Extraction System is stable at room temperature for one year.

This product should be stored in a dry place and kept away from direct sunlight.

## Quality Certification

We strictly enforce good quality control of our product by regular testing of each lot for maintaining satisfactory yield of DNA or RNA. Lot-to-lot testing results are documented, and any inquiry to access them is welcome.

## Operation Protocol

\* Preheat ddH<sub>2</sub>O or TE Buffer at 70°C first.

### Blood Sample

1. Pipet up to 0.3mL blood into a 1.5mL centrifuge tube. Add 1.0mL RL Buffer, mix well by invert, and incubate for 5 minutes to lyse RBC.
2. Centrifuge at 3,000 x g for 3 minutes, and then discard the supernatant.
3. Add 0.5mL RL Buffer and invert 10 times to mix well, and then carefully remove the supernatant.  
**Don't lose the WBC pellet.**
4. Add 0.4mL BX Buffer, then vortex for 30 seconds to mix completely.
5. Add 0.02mL RNase A (20mg/mL), then invert for 10 times to mix well.
6. (Optional Step) Incubate for 2 minutes at room temperature.
7. Add 0.2mL 99.5% Ethanol or Isopropanol, then invert for 10 times to mix well.
8. Set a B/T Genomic Mini Column onto a Collection Tube.
9. Pipet all the mixture (including any precipitate) into the column set.
10. Centrifuge at 6,000 x g for 30 seconds, and then discard the flow-through.
11. Add 0.5mL WS Buffer (ethanol added) into the column set. Centrifuge at 6,000 x g for 30 seconds, and then discard the flow-through.
12. Repeat Step 11.
13. Centrifuge at full speed for 2 minutes.
14. Place the column into a new 1.5mL centrifuge tube.
15. Add 0.1~0.2mL preheated ddH<sub>2</sub>O or TE into the column, and incubate for 2 minutes.
16. Centrifuge at full speed for 30 seconds, and get DNA in the 1.5mL centrifuge tube.

### Liquid-form Cell Sample

1. Pipet liquid-form cell sample (Up to 10<sup>7</sup> cells) into a 1.5mL centrifuge tube. Centrifuge at 3,000 x g for 3 minutes, and then discard the supernatant.
2. Continue to step 4 of the Blood sample protocol.

## Operation Flow Chart

