



## Genorise® Blood DNA Extraction Mini Kit 500

This kit is to isolate total DNA including genomic and mitochondrial DNA from 0.2 ml of blood and is for 500 applications. This kit can significantly increase quality and quantity of DNA and is more cost-effective than the similar products.

### Materials provided in the kit:

1. 500 mini DNA Binding columns
2. 500 Collection tubes
3. 120 ml Solution 1
4. 80 ml Solution 2
5. 135 ml Solution 3
6. 90 ml Solution 4
7. 120 ml Solution 5

### Materials required but not provided in the kit:

1. 100% Ethanol
2. 1.5 ml microcentrifuge tube

### Reagent preparation

1. Solution 3: add 165 ml 100% ethanol
2. Solution 4: add 210 ml 100% ethanol

### Protocol

1. Pipet 200  $\mu$ l Solution 1 into a 1.5 ml microcentrifuge tube. Add 200  $\mu$ l whole blood and mix thoroughly by vortexing.
2. Incubate at 56 °C for 10 min.
3. Add 130  $\mu$ l Solution 2 and mix thoroughly by vortexing. Centrifuge at 16,000 x g for 5 min.
4. Place the mini column in a collection tube and pipet the supernatant onto the column and centrifuge at full speed (20,000 x g) for 1 min. If samples remain in the column, repeat centrifugation to completely remove the remaining samples. Discard the flow-through but keep collection tube.
5. Place the column in a new collection tube and add 500  $\mu$ l Solution 3. Centrifuge at 6000 x g for 1 min. Discard the flow-through and keep the collection tube.
6. Add 500  $\mu$ l solution 4. Centrifuge at full speed (20,000 x g) for 3 min. Discard the flow-through and keep the collection tube.
7. Centrifuge at full speed for 1 min. Discard the flow-through and collection tube.
8. Place the mini column in a new 1.5 ml microcentrifuge tube and add 100-200  $\mu$ l Solution 5 and incubate for 1 min. Centrifuge at 6000 x g for 1 min to elute DNA.