PRODUCT INFORMATION

Rapid Animal Genomic DNA Isolation Kit

Product information for AT4780/AT4781/AT4782:

Kit Contents

Components	AT4780, 10 Preps	AT4781, 50 Preps	AT4782, 250 Preps
Universal Buffer Digestion	5 ml	24 ml	120 ml
Buffer PA	3 ml	12 ml	60 ml
TE Buffer	2 ml	10 ml	50 ml
Protocol	1	1	1

Storage
Transportation at ambient temperature. Upon receipt, store kit at room temperature, valid for 1 year.

Introduction
The kit is designed for rapid small-scale extraction of high quality genomic DNA from a variety of fresh or frozen animal cells and tissues. Purified DNA can be used for many downstream applications such as PCR, restriction digestion, hybridization and other applications.

Features
- ü Rapid & simple.
- ü High quality of DNA. OD_{260}/OD_{280} of purified DNA is generally 1.8~1.9.
- ü Non-toxic. The kit does not contain toxic reagents.
- ü Easy to scale up.

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Procedures

1. Pre-warm Universal Buffer Digestion at 65°C.

Note: Universal Buffer Digestion may form precipitates during long-term storage, warm the bottle at 65°C.

2. Grind 25~50 mg animal tissue to fine powder in liquid nitrogen. Transfer the powder into a 1.5 ml tube. Add 400 µl Buffer Digestion, incubate at 65°C for 1 hour.

Note 1: Alternatively, homogenize 25~50 mg tissue in 400 µl Buffer Digestion using a pestle or homogenizer.

Note 2: To obtain RNA-free DNA, add 20 µl RNase A solution (20 mg/ml) (not provided in the kit) to the tube. Mix thoroughly and incubate at 65°C for 5 minutes.

3. Add 200 µl Buffer PA, mix by inverting the tubes several times. Incubate at -20°C for 5 minutes.

4. Centrifuge at 12,000 x *g* for 5 minutes at room temperature. Transfer the supernatant to a new 1.5 ml tube.

5. (Optional) Add 0.2 ml of chloroform to the supernatant, mix well by inverting 10 times. Centrifuge at 12,000 x *g* for 2 minutes. Carefully transfer the supernatant to a clean 1.5 ml tube.

6. Add equal volume of isopropanol (approx 0.3~0.5 ml) to the solution, mix well by inverting the tube 5 times. Incubate at room temperature for 2~5 minutes. Centrifuge at 12,000 x *g* for 5 minutes, discard the supernatant carefully.

7. Add 1 ml of pre-cooled 75% ethanol to the tube, mix well by inverting 10 times. Centrifuge at 12,000 x *g* for 1 minute, discard the supernatant.

8. Repeat the Step 7 once.

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9. Air-dry the pellet at room temperature with the lid open for 2~5 minutes.

10. Add 50~200 µl of TE buffer to dissolve DNA pellet. Keep at 4°C for a couple hours until DNA pellet is completely dissolved. Purified DNA is ready for use. For long term storage, store at -20°C.

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PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY!
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