Stool DNA Methylation Pretreatment Kit

【REF】

CRC-MS03

【Package Size】

24 tests/kit, 48 tests/kit, 96 tests/kit

【Intended Use】

The Stool DNA methylation pretreatment kit is intended for rapid and reliable DNA bisulfite conversion, extraction, enrichment, and purification for methylation analysis.

【Principle of Procedure】

Utilizes bisulfite treatment to convert unmethylated cytosine (C) into uracil (U).

【Reagents Provided】

Component	24 tests	48 tests	96 tests
Conversion solution	1×3.5mL	2×3.5mL	4×3.5mL
Binding solution	1×15mL	1×30mL	1×60mL
Desulfonation solution	1×5mL	1×10mL	1×20mL
Washing solution	1×30mL	1×60mL	2×60mL
Elution solution	1×0.8mL	1×1.5mL	1×3mL
Magnetic Beads B	1×0.3mL	1×0.5mL	1×1mL

【Storage and Handling】

Store at 2-30°C. Do not freeze.

Do not use product after the expiration date.

【Instructions For Use】

1. Take out frozen DNA samples and thaw them at room temperature.
2. Prepare the bisulfite conversion reaction mix in a 0.2 ml PCR tube as follows:

Component	Quantity (μL)
Conversion solution	130
Distilled water	X
DNA samples	10-20
Total volume	150μL

4. Set the PCR program for bisulfite conversion: 95°C-98°C for 8 min, 54°C for 30-60 min, hold at 4°C.
5. After bisulfite treatment, transfer the reaction mixture to a 1.5 ml centrifuge tube.
6. Add 600 μL of **Binding solution** and 10 μL of **Magnetic Beads B** suspension, mix thoroughly, and let it sit at room temperature for 5 minutes.
7. Place the centrifuge tube on a magnetic rack for 5 minutes, then discard the supernatant.
8. Add 400 μL of **Washing solution** to the centrifuge tube, mix thoroughly.

9. Place the centrifuge tube on a magnetic rack for 3-5 minutes, then discard the supernatant.
10. Add 200 μL of **Desulfonation solution** to the centrifuge tube, mix thoroughly, and incubate at room temperature (20°C-30°C) for 10-20 minutes.
11. Place the centrifuge tube on a magnetic rack for 3-5 minutes, then discard the supernatant.
12. Add 400 μL of **Washing solution** to the centrifuge tube, mix thoroughly.
13. Place the centrifuge tube on a magnetic rack for 3-5 minutes, then discard the supernatant.
14. Add 400 μL of **Washing solution** to the centrifuge tube, mix thoroughly.
15. Place the centrifuge tube on a magnetic rack for 3-5 minutes, then discard the supernatant and remove any residual liquid.
16. Dry the magnetic beads at-room temperature (20°C-30°C) for 5 minutes until no residual liquid remains.
17. Add 25 μL of **Elution solution**, mix thoroughly, incubate at room temperature (20°C-30°C) for 5 minutes.
18. Place the centrifuge tube on a magnetic rack for 1 minute, then collect the eluted product (converted DNA).
19. Use the converted DNA directly for downstream experiments or store at -20°C.

【Specimen Collection and Preparation for Analysis】

Sample Type: Stool DNA samples.

The total amount of sample DNA should be between 100 pg and 2 μg, optimal amount between 200 ng and 500 ng.

【Limitations】

1. This product is only for bisulfite conversion, extraction, enrichment, and purification of nucleic acids.
2. The processed product is suitable for clinical gene methylation analysis.

【Warnings and Precautions】

1. For research use only.
2. Do not use if the components in kit show color change or precipitate.
3. Do not use if the reagent kit components exceed the expiry date.
4. Avoid microbial contamination.
5. Take safety precautions when handling or using any biological specimen or reagent.

【Contact Information】

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