Stool DNA Extraction Kit

【REF】

CRC-MS02

【Package Size】

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

【Intended Use】

The Stool DNA extraction kit is intended for laboratory use to isolate and purify genomic DNA from human stool samples and subsequently for methylation analysis.

【Principle of Procedure】

Magnetic bead-based nucleic acid extraction is a method that DNA selectively binds to an appropriately-coated bead surface and is separated from the rest of the sample solutions. After washing, the DNA is eluted from the magnetic beads by adding a low-salt elution buffer or water.

【Reagents Provided】

Component	24 tests	48 tests	96 tests
Lysis tablets	48×1.4g	96×1.4g	192×1.4g
Magnetic beads A	1×9mL	1×18mL	2×18mL
Washing solution 1	1×20mL	1×40mL	2×40mL
Washing solution 2	1×20mL	1×40mL	2×40mL
Elution solution	1×1.5mL	1×2.5mL	2×2.5mL

【Storage and Handling】

Store at 2-30°C. Do not freeze.

Do not use product after the expiration date.

【Instructions For Use】

1. Thaw the frozen stool sample preserved in stool collection solution at room temperature or 37°C (do not leave for long time), mix thoroughly using a votexer, then transfer 45 mL homogenized sample to a 50 mL centrifuge tube.
2. Centrifuge at 4500-5000 g for 30-45 minutes.
3. Pipette 10 mL of the supernatant into a clean centrifuge tube, add 2 **Lysis tablets**, dissolve and mix thoroughly.
4. Denature samples at 90°C for 10-20 minutes, when the temperature drops to 70°C, add 350 µL of **Magnetic beads A** and incubate at 70°C for 10 minutes.
5. Incubate at room temperature for 60 minutes (with gentle shaking on a shaker).
6. Use a magnetic rack to collect the beads, discard the supernatant.
7. Add 750 µL of **Washing Solution 1**, mix thoroughly, spin and place on a magnetic rack for 3 minutes, discard the liquid.
8. Add 750 µL of **Washing Solution 2**, mix thoroughly, spin and place on a magnetic rack for 3 minutes, discard the liquid.

9. Briefly spin to collect residual liquid at the bottom of the tube, vacant liquid as much as possible, and air dry at room temperature for 3-5 minutes.
10. Add 25 μL of **Elution solution**, resuspend the beads thoroughly, incubate at 80°C for 20minutes
11. Collect the supernatant and determine DNA concentration.
12. Store the extracted DNA at -20°C ± 8°C for further use.

【Specimen Collection and Preparation for Analysis】

1. **Sample Type:** Stool samples.
2. **Sample Collection:** Self-collected by the user.
3. **Sample Collection Time:** Collect prior to colorectal examination or colorectal treatment/surgery.
4. **Sample Requirements:** The stool sample should not be watery.

【Limitations】

1. Do not use watery fecal samples; if encountered, reschedule sample collection.
2. This product is used in conjunction with Long Island "Stool Collection kit". It is only used for nucleic acid extraction, enrichment, and purification of human stool samples. The extracted DNA product is used for subsequent gene methylation testing.

【Warnings and Precautions】

1. For research use only.
2. Do not use if the reagent kit components show color changes or precipitates.
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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