Serum Plasma Free DNA Extraction Kit (middle amount)

Cat: D1820
Size: 10T/20T
Storage: This kit can be transported at room temperature and stored at room temperature(10-30℃). The validity period is 12 months. Please store the digestive fluid and DNA Carrier at -20℃ to avoid repeated freezing and thawing.

Kit Components:

Kit Components	10T	20T
Adsorption Column and Collection Tubes	10 each	20 each
Lysate	17mL	34mL
Washing Buffer A	31.5mL	63mL
Washing Buffer B	13.5mL	27mL
Elution buffer	1mL	2mL
Digestive Solution	1.7mL	3.4mL
DNA Carrier	0.35mL	0.7mL
Specification	1	1

Introduction:

Serum plasma free DNA extraction kit is specially used to extract medium amount(0.5-1.5mL) of serum, plasma, pleural fluid, cerebrospinal fluid, synovial fluid, water samples and other liquid samples of free DNA kit. This kit uses the latest high-quality imported ionic membrane, lysate and elution buffer have been optimized for many times, and can efficiently separate DNA. Compared with similar kits of other brands, the extracted DNA has a larger yield and higher purity, and the impurity pollution such as protein, pigment and lipid is removed to the maximum extent. It can be directly applied to PCR, fluorescent quantitative PCR and various enzyme digestion tests.

Product Features:

1. High purity of extracted DNA, no inhibitor, A260/A280 1.7-1.9.
2. The yield is higher, 20% higher than the domestic similar products.
3. It can be used for DNA extraction in medium(0.5-1.5mL) serum, plasma, pleural and abdominal fluid, cerebrospinal fluid, synovial fluid, water sample and other liquid samples.
4. The operation is simple and fast, and the ideal DNA can be obtained within half an hour.
5. It does not contain toxic solvents such as phenol and chloroform, and is safe and non-toxic.

Protocols(only for reference):

1. Please prepare yourself: anhydrous ethanol, 15mL centrifuge tube.
2. Take out the washing buffer and do as follows:

(1) Washing buffer A: Add 13.5mL anhydrous ethanol to 31.5mL washing buffer A, mix well; Add 27mL anhydrous ethanol into 63mL washing buffer A and mix well.

(2) The washing buffer B: Add 31.5mL anhydrous ethanol into 13.5mL washing buffer B and mixed well; Add 63mL anhydrous ethanol into 27mL washing buffer B and mix well.

(3) The prepared precipitated liquid and washing liquid, if precipitated, can be dissolved at 37℃, shake well before use.

3. Take 15mL centrifuge tube(prepared by oneself), add 1500μL sample, 30μL DNA Carrier and mix well, add 1500μL lysate and 150μL digestive solution, shake and mix well, and bathe at 56℃ for 10min.
4. Add 6000μL anhydrous ethanol and mix it upside down gently. If there is translucent suspended matter, it will not affect DNA extraction and subsequent experiment.
5. Put the adsorption column into the collection tube, transfer the above solution 4590μL into the adsorption column, stand for 2min, centrifuge at 8,000rpm for 2min, and discard the waste liquid in the collection tube;
6. Put the adsorption column back into the collection tube, transfer the remaining 4590μL solution into the adsorption column, and repeat step 5.
7. Put the adsorption column back into the collection tube, add 3750μL washing buffer A into the adsorption column, centrifuge at 8,000rpm for 2min, and discard the waste liquid in the collection tube.
8. Put the adsorption column back into the collection tube, add 3750μL washing buffer B to the adsorption column, stand for 2min, centrifuge at 8,000rpm for 1min, and discard the waste liquid in the collection tube.
9. Put the adsorption column back into the collection tube and centrifuge it at 8,000rpm for 2min to remove the residual washing buffer.
10. Remove the adsorption column, put it into a new 15mL collection tube, add 70μLelution buffer(pay attention to adding the elution buffer evenly in the middle and around the adsorption membrane), stand for 3min, centrifuge at 8,000rpm for 3min, and collect the DNA solution. The extracted DNA can be used for the next experiment or stored at -20℃.

Recommended sample size and proportion of reagent components added to the kit:

sample size	DNA Carrier	Digestive Solution	lysate	Anhydrous ethanol	Washing buffer A	Washing buffer B
1mL	20μL	100μL	1mL	4mL	2.5mL	2.5mL
1.5mL	30μL	150μL	1.5mL	6mL	3750μL	3750μL

Notes:

1. The cracking liquid, washing liquid contains irritating chemicals, please take protective measures during the operation, avoid direct contact with the skin, prevent inhalation nose. If accidentally contaminated skin or eyes, please rinse immediately with water or saline, if necessary, seek medical attention.
2. If white flocculent precipitates from the lysate, it is normal and can be dissolved in 37℃ water bath.