Urine DNA Extraction Kit

Cat: D2710

Size: 50T/100T

Storage: The kit can be transported at room temperature and stored at room temperature (10-30℃)for 12 months. The digestive solution should be stored at -20℃ to avoid repeated freezing and thawing.

Kit Components:

Kit Components	50T	100T
Adsorption Column and Collecting Tubes	50 each	100 each
Lysate	12mL	24mL
Precipitated Liquid	4.5mL	9mL
Washing Buffer	9mL	18mL
Elution Buffer	3mL	6mL
Digestive Solution	1.2mL	2.4mL
Specification	1	1

Introduction:

Urine DNA extraction kit is a kit specially used for DNA extraction of urine. This kit uses the latest high-quality imported exofilms. The lysate and eluent have been optimized many times to efficiently separate DNA from urine precipitated cells. Compared with the similar kits of some other brands, the extracted DNA has a larger yield and higher purity, and the impurity pollution of protein, pigment, lipid and so on is removed to the maximum extent. It can be directly applied to PCR, fluorescent quantitative PCR and various enzyme digestion tests.

Product Features:

1. The extracted DNA was of high purity, no inhibitors, and A260/A280 was 1.7-1.9.
2. High yield, more DNA extracted for the same sample size.
3. It can be used for the extraction of DNA from urine samples, and the extracted DNA can be used for nucleic acid detection.
4. 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, normal saline, centrifuge tube.
2. Take out the precipitated liquid and washing buffer, as follows:

(1) Precipitated liquid: add 25.5mL anhydrous ethanol into 4.5mL precipitated liquid; add 51mL anhydrous ethanol into 9mL precipitated liquid.

(2) Washing buffer: Add 21mL anhydrous ethanol into 9mL washing buffer;Add 42mL anhydrous ethanol into 18mL washing buffer.

(3) The prepared precipitated liquid and washing buffer, if precipitated, can be dissolved at 37℃,

shake well before use.

3. Take 5mL of urine(the amount of urine can be in the range of 1-5mL) and place it in a centrifuge tube, centrifuge at 5000rpm for 5min, and carefully discard the supernatant. Add 1mL normal saline, gently shake and mix, and transfer the suspension into 1.5mL centrifuge tube. Centrifuge at 5000rpm for 5min, discard 900μL supernatant, and shake and mix the remaining 100μL supernatant.
4. Add 200μL lysate and 20μL digestive solution, shake and mix well, and bathe in water at 56℃ for 10min.
5. Add 500μL precipitated liquid and mix it upside down gently. If there is translucent suspended matter, it will not affect DNA extraction and follow-up experiment.
6. Put the adsorption column into the collection tube, transfer the above solution into the adsorption column, stand for 2min, centrifuge at 12,000rpm for 1min at 4℃, and discard the waste liquid in the collection tube.
7. Put the adsorption column back into the collection tube, add 500μL washing buffer to the adsorption column, centrifuge at 12,000rpm and 4℃ for 1min, and discard the waste liquid in the collection tube.
8. Put the adsorption column back into the collection tube, centrifuge it at 12,000rpm and 4℃ for 2min, and then discard the residual washing liquid.
9. Remove the adsorption column, put it into a new 1.5mL centrifuge tube, add 30-60μL elution buffer, put at room temperature for 2min, centrifuge at 12,000rpm for 2min at 4℃, and collect DNA solution. The extracted DNA can be used for the next experiment or stored at -20℃.

Notes:

1. The precipitated liquid, washing buffer contains irritating chemicals, please take protective measures during 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.