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Serum/Plasma miRNA Extraction Kit

Cat： EXR0226

Size： 25/100T

Storage： RT， two years

Product description：

The Serum/Plasma miRNA extraction kit has the advantages of simple operation, good repeatability and high microrna yield. The high-purity miRNA can be obtained by one step on the column, and the extraction of Microrna can be completed in about 10 minutes. In the Small RNA)extracted by this kit, the length of RNA in the range of 15 ~ 200 nt is more than 95% , and there is no large RNA and DNA basically, it can be directly used in the following applications, such as reverse transcription, Northern blot, sequencing, etc. .

product content：

content	25T	100T
Serum/Plasma miRNA Reagent	20 mL	80mL
miRNA adsorption column	25 p	100 p
RnaseFree H_2O	5mL	5mL

Experiment preparation:

Self-contained reagent： Isopropanol、Ethanol、75% Isopropanol

1. 800 μL Serum/Plasma miRNA Reagent was added into 1.5 ml EP tube. 300 μLserum or plasma samples were added to 800μL miRNA Reagent A and mixed manually for 30 seconds and left at room temperature for 5 min.
2. 13000rpm centrifuged for 5 min, about 1 mL of supernatant was poured into the new 2 ml EP tube. Add 1 ml isopropyl alcohol, mix well upside down.
3. The above solution was poured into the adsorption column in three times (about 700μLeach time) , centrifuged at 13000 rpm for 15s, and the column solution was poured out.
4. 700 μL 75%Isopropanol was added to the adsorption column once, centrifuged for 15s at 13000rpm, and the filtrate was poured out.
5. Add 500 μLanhydrous ethanol to the adsorption column, Rinse once, centrifuge 15s at 13000RPM, and discard the filtrate.
6. The adsorption column was centrifuged at13000 rpm for 2 min to remove the residual ethanol.
7. The adsorption column was placed in a new 1.5 ml EP tube at room temperature for 2 minutes to volatilize the residual ethanol. After adding 30 μL RnaseFree H_2O to the adsorption column filter, the eluted product was miRNA， which was extracted from the adsorbed Mirna after 2 minutes at room

temperature and 13000rpm.

FAQ:

1. Because the concentration of miRNA in serum is very low and the extracted Mirna concentration is usually below 5ng/μL, it is difficult to measure the concentration with conventional NanoDrop. The number of miRNA Copy at this concentration is sufficient for downstream detection because the kit extracts small rnas.

2. Due to the low level of miRNA in the serum, downstream detection of miRNA by Taqman probe with better specificity and sensitivity is recommended for more reliable data. The miRNA extracted by this kit is not limited to other detection methods and uses, including SYBR Green method detection, second generation sequencing, chip and other detection areas。