【Product Name】MagPure Circulating DNA Mini Precast Kit（96 Channel Machine）

【Product specification】 96 Preps

【Expected usage】

This Kit is designed for purification of high quality circulating DNA (cfDNA) from cell-free body fluids (such as plasma, serum). The purified DNA is suitable for direct use in downstream applications such as PCR, real-time PCR, Biochip analysis and NGS..

【Product introduction】

This product is based on the purification method of high binding magnetic particles. The sample is lysed and digested under the action of lysate and Protease. DNA is released into the lysate. After adding magnetic particles and binding solution, DNA will be adsorbed on the surface of magnetic particles, and impurities such as proteins will be removed without adsorption. The adsorbed particles were washed with washing solution to remove proteins and impurities, washed with ethanol to remove salts, and finally DNA was eluted by Elution Buffer..

【Compositions】

Cat.No	IVD5432-F-96A	IVD5432-F-96B
Sample amount	200~350μl	400~700μl
Carrier RNA	110 μg	110 μg
Protease K	50 mg	100 mg
Protease Dissolve Buffer	5 ml	6 ml
Elution Buffer	15 ml	15 ml
Sample Plate A	500μl Buffer MLK	500μl Buffer MLK
Sample Plate B	/	500μl Buffer MLK
Washing Plate 1	700μl Buffer MAW1	700μl Buffer MAW1
Washing Plate 2	25μl Buffer MPG2 700μl Buffer MW2	25μl Buffer MPG2 700μl Buffer MW2
Washing Plate 3	700μl Buffer MW2	700μl Buffer MW2
Elution Plate	/	/

【Storage conditions and validity】

This kit is shipped and stored at room temperature and is valid for 18 months.

【Preparation before Use】

- Dissolve protease K: Add 2.5ml/5ml/7.5mL Protease Dissolve Buffer as shown on the label, invert several times, and store at -20~8℃.
- Dissolve Carrier RNA: Add 1ml Elution Buffer and 10μl Protease K to the bottle, vortex for 3 minutes, stored at -20℃.

Protocol 1: Operation of 96 channel nucleic acid extractor (200~350μl)

1. Take out the Elution Plate, add 40~50μl Elution Buffer to each well. Take out the required components of the kit, remove the sealing bag and sealing film.
2. Take out the Sample Plate, add 20μl Protease K and 0.2μg Carrier RNA (Optional) to each well, then add 200~350μl samples. Place the 96 well magnetic tip to Washing Plate 1. (Protease K and Carrier RNA can be pre mixed)
3. Place the plate to the corresponding position of the instrument. Start the corresponding program.
4. Finish the operation after ~35 minutes. Remove the 96-well plate and magnetic Tip. Transfer the DNA to a 1.5ml centrifuge tube and store the product at -20~8℃.

Protocol 2: Operation of 96 channel nucleic acid extractor (400~700μl)

1. Take out the Elution Plate, add 40~50μl Elution Buffer to each well. Take out the required components of the kit, remove the sealing bag and sealing film.
2. Take out Sample Plate A and B, add 20μl Protease K and 0.2μg Carrier RNA (Optional) to each well. (Protease K and Carrier RNA can be pre mixed). Divide the sample into two parts, add 200~350μl to each well.
3. Place the 96 well magnetic tip to Washing Plate 1.
4. Place the plate to the corresponding position of the instrument. Start the corresponding program.
5. Finish the operation after ~50 minutes. Remove the 96-well plate and magnetic Tip. Transfer the DNA to a 1.5ml centrifuge tube and store the product at -20~8℃.

【Basic Information】

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