

[Product Name] MagPure Circulating DNA Mini Precast Kit (Auto Pure 32)

[Product specification] 96 Preps

【Intended Use】

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..

[Principle]

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.

[Main Compositions]

Cat.No	Precast Reagent	IVD5432-TL-06A	IVD5432-TL-06A-00		
Purification times		96 Preps	16 Preps		
Carrier RNA		310 µg	110 µg		
Proteinase K		50 mg	12 mg		
Protease Dissolve Buffer		6 ml	1.8 ml		
Elution Buffer		15 ml	5 ml		
AS-Tip		12	2		
	Row 1/7: 600µl Buffer MLK		1 plate		
	Row 2/8: empty				
	Row 3/9: 600µl Buffer MAW1				
2.0ml V-bottom plate	Row 4/10: 20µl Buffer MPG2	6 plates			
•	600µl Buffer MW2				
	Row 5/11: 600µl Buffer MW2				
	Row 6/12: empty				

[Storage conditions and validity]

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

[Applicable Instrument]

Nucleic Acid Extraction Machine such as Auto Pure 32 (Allsheng), Magmix 32 and similar extractors.

[Preparation before Use]

- Dissolve Proteinase K: Add 2.5ml/5ml/7.5mL Protease Dissolve Buffer as shown on the label, invert several times, and store at -20~8°C.
- Dissolve Carrier RNA: Add 310µl Elution Buffer, vortex to mix for 10-15 seconds, stored at -20°C.
- Optional: Carrier RNA is beneficial for improving the recovery rate of trace amounts of DNA, add 5µl Carrier RNA per 1ml Protease K, invert and mix well.

[Protocol : Extraction of cfDNA from 300µl Samples]

- 1. Take out the required components of the kit, remove the sealing bag and sealing film.
- 2. Add 40~50 μI Elution Buffer into the wells of Row 6/12.
- Add 20µl Proteinase K or Proteinase K/Carrier RNA into the wells of Row 1/7. Then Add 300~350µl samples.
- 4. Insert the magnetic Tip into the corresponding position of the instrument.
- 5. Place the plate into the corresponding position of the instrument.
- 6. Start the corresponding program IVD5432-TL-06A.
- 7. Finish the operation after ~30 minutes.
- 8. Remove the 96-well plate and magnetic Tip.
- 9. Transfer the DNA to a 1.5ml centrifuge tube and store the product at -20~8 $^\circ\!C.$

[Auto Pure 32 program recommendation]

Name	Well	Mix Time (min)	Mix 1-100%	Wait	Volume (ul)	Speed (1-10)	Magnet (0-5)	Repeat (1-10)	Magnet Speed (1-10)	Stay (min)	Hover (min)	1⁵ Step Magnet time	2 nd step Magnet time	3 rd step Magnet time
Magnet move	4	0.3		0	600	8	3	1	5	0	0	3	3	3
Bind]	10	70%	0	950	7	3	2	5	0.5	0	10	10	10
Wash 1	3	1	70%	0	600	8	3	1	1	0	0	3	3	3
Wash 2	4	1	70%	0	600	8	3	1	1	0	0	3	3	3
Wash 3	5	1	70%	0	600	8	3	1	1	0	0	3	3	3
Dry	5	0	0	6min	500	0	3	1	1	0	0	0	0	0
Elute	6	5	70%	0	100	8	3	2	5	0	0	5	5	5
Drop	4	0.5	70%	0	500	9	0							

[Basic Information]

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