

【Product Name】 MagPure Blood DNA Precast Kit (Auto Pure 96)

【Product specifications】 96 Preps

【Intended Use】

This product provides high quality purification of total DNA from whole blood, plasma, serum, buffy coat, or other body fluids, lymphocytes and cultured cells. There is no need to use toxic phenol chloroform extraction or time-consuming alcohol precipitation. The extraction process finish in 60 minutes. Purified DNA includes genomic DNA, mitochondrial DNA, viral DNA (e.g. HBV), or DNA from other parasitic microorganisms. The obtained DNA can be directly used in PCR, viral DNA detection and other experiments.

【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 buffer to remove proteins and impurities, washed with ethanol to remove salts, and finally DNA was eluted by Elution Buffer.

【Kit Contents】

Cat.No	Precast Reagent	D6311-F-96
Proteinase K		50 mg
Protease Dissolve Buffer		6 ml
96-Tip		1
Sample Plate	200µl Buffer AL/Reagent DX	1
Wash 1 Plate	500µl Buffer GW1	1
Wash 2 Plate	500µl Buffer GW1	1
Wash 3 Plate	500µl Buffer GW2, 20µl MagPure Particle	1
Wash 4 Plate	500µl Buffer GW2	1
Elute Plate	80µl Elution Buffer	1

【Storage conditions and Validity】

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

【Applicable Instrument】

Automated Nucleic Acid Extraction Machine such as Auto Pure 96 (Allsheng) or similar.

【Preparation before Use】

- Add 2.5ml Protease Dissolve Buffer into the bottle of Proteinase K, mix well and stored at -20~-8°C.

【Part 2: Auto Pure 96 nucleic acid extractor operation】

1. Take out the required components of the kit.
2. Inverting the Wash 3 Plate several times to re-suspend the magnetic beads.
3. Remove the sealing bag and sealing film.
4. Place a 96 tip comb for deep well magnets on Wash 3 Plate.
5. **Add ~200µl whole blood and 20µl Proteinase K to the sample plate.** Then load the plates on the machine.

Recommend sample amount: 200 µl whole blood, plasma, serum, buffy coat, or body fluids or up to 5 x 10⁶ lymphocytes or Culture Cells in 200µl PBS.

6. Turn on the machine and start the D6311-F-96 protocol.
7. **Add 300µl Isopropanol to the Sample plate during the dispense step.**
8. Place the sample plate back into the machine and continue the program..
9. After the run is completed, remove the plates and store the purified DNA at -20~-8 °C

【Auto Pure 96 program recommendation】

Name	Plate	Mix time (min)	Mix 1-100%	Wait	Volume (ul)	Mix Speed (1-10)	Magnet (0-5)	Repeat (1-10)	Magnet Speed (1-10)	Stay (min)	Hover (min)	1 st Step Magnet time	2 nd step Magnet time	3 rd step Magnet time	Tem (37-120°C)
96-Tip	4	0	0	0	500										
Collect	4	0.5 min	80%	0	500	7	3	1	5	0	0	3	3	3	
Lysis	1	10 min	80%	0	400	7	0	0	0	0	0	0	0	0	70°C

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Bind	1	6 min	70%	0	700	8	3	2	5	0	0	5	5	5	
Wash 1	2	3 min	80%	0	500	9	3	1	1	0	0	3	3	3	
Wash 2	3	3 min	80%	0	500	9	3	1	1	0	0	3	3	3	
Wash 3	4	1 min	80%	0	500	8	3	1	1	0	0	3	3	3	
Wash 4	5	1 min	80%	5min	500	8	3	1	1	0	0	3	3	3	
Elute	8	8 min	70%	0	100	8	3	2	5	0	0	5	5	5	55°C
Drop	5	0.2 min	70%	0	500	8	0	0	0	0	0	0	0	0	