Pioneer Research Anahita Company
No.157
Danesh street
Technology Park Pardis
Tehran/ Iran

DATA SHEET
Versions: 01
Revision date: 29/11/2023

1. Identification

Product name: Magnetic DNA extraction kit from tissues and blood

Reactions: 100 rxns

Cat. No.: PRA- MDNAbt

2. Description

3. Kit Contents

Component	Cat. no	Quantity
Lysis solution A	PRA-KLS	20 ml
Lysis solution B	PRA-KLSB	25 ml
Lysis solution C	PRA-KLSC	5 ml
Homogenizer Buffer	PRA-HBt	25 ml
Precipitation solution	PRA-PS	25 ml
Washing buffer PI	PRA-WBpI	25 ml
TE buffer	PRA-TE	5 ml

4. Storage specifications

The components of the plasmid extraction kit can be conveniently stored at -20°C for later use.

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5. Applications

Molecular Biology Applications:

- PCR

- PCR-Seq

- Southern Blot

6. Assay Procedure

DNA Purification Protocol:

1. Add 500 µl of lysis buffer B to the microtube provided in the kit.

2. Add appropriate amounts of the sample (e.g., 200 µl of blood or all the tissue lysate) to the microtube. Mix vigorously for 15 seconds on the vortex and incubate at room temperature for 10 minutes. Vortex the samples every 5 minutes.

3. Add 100 µl of Lysis Buffer C to the microtube and mix vigorously for 5 seconds.

4. Add 200 µl of magnet nanoparticles to the microtube (ensure to shake the vial well before removing the nanoparticles). Mix vigorously with a vortex and incubate for 5 minutes at room temperature.

5. Place the microtube in a special magnetic rack and incubate for 30 seconds. The magnet particles attached to the DNA move towards the magnet in the rack. Using the sampler, drain the liquid.

6. Remove the microtubes from the special rack and again add 300 µl of lysis buffer B and 100 µl of lysis buffer C to the microtubes. Vortex.

7. Put the microtube in a special rack and use the sampler to drain the liquid in the rack from inside the microtube.

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8. Remove the microtubes from the special rack and add 800 µl of washing buffer to the microtubes. Mix thoroughly by hand.

9. Put the microtube in a special rack and use the sampler to drain the liquid in the rack.

10. Add 100 µl of DNase/RNase free distilled water, vortex, and incubate for 2 minutes at room temperature. Ensure that the temperature of the distilled water is around 55°C for better DNA purification.

11. Place the microtube in a special rack and incubate for 30 seconds. The liquid in the microtube contains pure DNA. Therefore, using the sampler, transfer the existing liquid from the microtube to a sterile and DNase/RNase free microtube and store it at -20°C.

7. Safety

The solutions used in the kit have oxidizing and acidic properties. Avoid direct contact with skin and eyes. In case of contact with the mentioned tissues, wash with plenty of water and go to the nearest medical center.

8. Quality Certifications

The Mentioned product has been approved for marketing in Islamic Republic of Iran.

9. Further information

This product is developed, designed, and sold exclusively for research purposes. The product has not been tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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10. Other Kits

Other RNA Extraction Kits and DNA:
All the following DNA extraction kits are available in all three formats: column, sedimentary, and magnet nanoparticles:

1. DNA extraction kits from blood and tissue by column
2. DNA extraction kits from gram-positive and negative bacteria
3. DNA extraction kit from mycobacterium
4. DNA extraction kit from Fungi
5. DNA extraction kit from virus
6. DNA extraction kit from HPV virus
7. DNA extraction kits from plant tissue

RNA Extraction Kits:

All the following RNA extraction kits are available in both column and sedimentary methods:

1. RNA extraction kits from blood and tissue
2. RNA extraction kits from gram-positive and negative bacteria
3. RNA extraction kit from mycobacterium
4. RNA extraction kit from Fungi
5. RNA extraction kit from the virus
6. RNA extraction kits from plant tissue

NOTE

All products have been produced by Karmania Pars Gene company in Iran.