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

DATA SHEET
Versions: 01
Revision date: 25/11/2023

1. Identification

Product name: DNA extraction kit from Gram positive and negative

Reaction: 50 rxn

Cat. No.: PRA-RNKcb-51

2. Description

To extraction of DNA from Gram positive and negative bacteria use enough bacteria (1.5 McFarland), then lyse the bacteria and pass from DNA extraction column. DNA will be separated from the filter using DNase/RNase free water.

3. Kit Contents

Component	Cat. no	Quantity
Lysozyme	PRA-L	1 mL
TE Buffer	PRA- KPS	5 mL
Lysis solution A	PRA-KSA	20 mL
Lysis solution B	PRA-KSB	5 mL
Precipitation solution	PRA-PS	15 mL
Washing buffer	PRA-WB	25 mL
DNase free water	PRA-DW	5 mL
High absorbance column tube	PRA-Column	50 pcs
Collection Tube	PRA-CT	100 pcs

Caution: Please wear gloves when using this product. Avoid all skin contact with kit reagents. In case of contact, wash thoroughly with water.

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4. Storage specifications

All other kit components can be stored at room temperature.

5. Applications

All molecular biology applications, such as:

- PCR template
- Automated sequencing
- Southern Blots

6. Assay Procedure

1. Add 400 microliter Lysis Solution A to the previous step microtube and vortex it for 10 seconds and incubate for 6 minutes.

2. Add 100 microliter Lysis Solution B to the tube and vortex it for 10 seconds and incubate for 3 minutes.

3. Add 10 µl of Carrier (PRA-CR) and vertex for 5 seconds.

5. Add 300 microliter Precipitation Solution (PRA-PP) and vortex for 5 seconds.

6. Transfer the entire the tube to the DNA extraction column (PRA-Column) and centrifuge at 8000 rpm for 1 minute.

7. Transfer the column to the new collection tube and add 500 µl from the washing buffer (PRA-WB) to the column and centrifuge at 8000 rpm for 1 minute.

8. Discharge the contents of the collection tube and re -insert the column inside the collection tube and centrifuge at 12,000 rpm for 1 minute without adding any solution.

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9. Transfer the column to the new collection tube and add 50 µl of distilled water and incubate for 4 minutes at room temperature. It is advisable to pre-warm distilled water to 65 ° C.

10. Centrifuge the column at 12000 for 1 minute. The solution passed through the column contains DNA.

Note: To check the accuracy and amount of DNA drainage, be sure to check the DNA OD at 260 and 280 nm wavelengths, and ensure that it is accurate by electrophoresis.

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

Mentioned product has been approved for marketing in Islamic Republic of IRAN

9. Further information

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

10. Other Kits

Other DNA extraction kits and RNA:

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All the following DNA extraction kits are available in all three 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. The 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.