شرکت دانش بنیان تولیدی پویا ژن آزما

POUYA GENE AZMA Ltd. (PGA)

PGA Bacterial DNA Extraction kit

CatalogNo.PD115-050 **50 Preps**

Store: RT

Kit CONTENTS:

Buffer I	**5 ml**
Buffer II	**10 ml**
Buffer III	**8 ml**
Buffer X	**10 ml**
Rnase A	**50 µl**
Solvent Buffer	**5 ml**

Scan to learn how to use

Required contents:

cool ethanol %100
cool ethanol %70

Attention: before use, please add RNase A to Buffer I and keep in 4 ºC

LABORATORY PROTOCOL:

1**:** Collect 3 -5 ml bacterial culture in a microtube, then centrifuge at 13000 rpm for 3 minutes.

2: Resuspend the precipitate in 100µl Buffer I.

3: Add 200 µl Buffer II in the microtube and gently invert 3-5 times.

4: Add 150 µl Buffer III in the microtube and gently invert 3 times, then keep at 37 ºC for 45 minutes. (For gram-negative bacteria no need number 4 step)

5: Add 180 µl Buffer X in the microtube, then invert 10 times. The white precipitate should be seen.

6: Microcentrifuge 13000 rpm for 10 minutes**.**

7: Transfer the supernatant to a new microtube. (Important: do not transfer precipitate in a new tube. otherwise, repeat step 6)

8: Add cold ethanol %96 - %100(2 × supernatant volume) to the supernatant and invert gently 5 times.

9: Microcentrifuge at 13000 rpm for 5 minutes.

10: Pour off the ethanol by inverting the tube gently, then keep precipitate.

11: Wash the precipitate by adding 700µl cold ethanol %70 and invert 2-3 times.

12: Microcentrifuge 13000 rpm for 1 minute.

13: Pour off the ethanol entirely and dry the pellet for 2-3 minutes at room temperature.

14: According to precipitate, Add 20 - 50µl Solvent Buffer in the tube. The precipitate must be solved completely.