



PGA Blood DNA Extraction Kit

Catalog No. PD130-050
Store at: RT

50 Preps

For research use only

KIT CONTENTS:

Buffer MR	20 ml
Buffer MI	10 ml
Buffer MII	3 ml
Buffer MIII	5 ml
Solvent Buffer	5 ml
RNase A	35 µl

Scan for more



Required contents:

Cold ethanol %100

Cold ethanol %70

Kit Description:

This kit contains all the ingredients for quick preparation of DNA from Blood. This kit presents remarkable features of time-saving, easy, prompt and high yield DNA isolation. The procedure does not require phenol extraction. DNA obtained by this method can be used for all molecular biology procedures (PCR, restriction digestion, cloning, Southern blot, DNA sequencing).

LABORATORY PROTOCOL:

Attention: Please add RNase A to MI Buffer before use and keep it at 4°C.

1. Add 100 µl whole blood to a 1.5 ml microtube, then add 200 µl MR buffer and mix gently by inverting two times.

2. Incubate the tube on ice for 2-3 minutes, then microfuge at 9000 rpm for 4-5 minutes.

3. Pour off the supernatant and keep the precipitate. **(Important: Keep about 50 µl of the supernatant.)**

4. Add 200 µl MR buffer and re-suspend the precipitate. Microfuge at 9000 rpm for 4-5 minutes.

5. Repeat steps 3 and 4 until the precipitate turns white.

6. Add 200 µl MI buffer and re-suspend the precipitate.

7. Add 50 µl MII buffer to the tube and gently invert twice. Keep it at room temperature for 20-30 minutes until a clear solution is produced.

8. Add 100 µl MIII buffer to the tube and invert ten times. **(When MIII buffer is added, the white the precipitate is produced).**

9. Microfuge at 13000 rpm for 10 minutes.
10. Transfer the supernatant to a new tube.

(Important: Do not transfer the precipitate to the new tube. In this case, repeat steps 9 and 10.)

11. Add cold ethanol %96 - %100(2 X supernatant volume) to the supernatant and invert gently five times.

12. Microfuge at 13000 rpm for 5 minutes.

13. Pour off ethanol and wash the precipitate by adding 200-500 µl cold ethanol %70 and invert 2-3 times.

14. Microfuge at 13000 rpm for 2-3 minute.

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

16. According to the precipitate, add 20-50 µl Solvent Buffer. The precipitate must be solved completely.