A&A BIOTECHNOLOGY
innovating life science

Manual

Xpure™ Blood Mini

Kit for genomic DNA purification from blood.
Isolation columns packed individually in sterile conditions.

catalog #	size
097-50	50 isolations

For research use only.

Guarantee
A&A Biotechnology provides a guarantee on this product.
The company does not guarantee the correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

Table of Contents

Contents

component	090-50	storage
Minicolumns with tubes (packaged in blisters)	50 pcs	15-25 °C
2 ml tubes	100 pcs	15-25 °C
GTWT lysis solution	12 ml	15-25 °C
C1 first wash solution	30 ml	15-25 °C
A1 second wash solution	30 ml	15-25 °C
Tris buffer (10 mM, pH 8.5)	12 ml	15-25 °C
Proteinase K	1.1 ml	2-8 °C

Additional equipment and reagents

Necessary

- 1.5 ml, 2 ml sterile Eppendorf tubes
- 96%-99% ethanol
- Incubator or thermoblock set to 50 °C
- Microcentrifuge
- Vortex

Isolation protocol

1. Transfer **blood samples (up to 200 µl)** to Eppendorf tube (not included).

   If the sample is less than 200 µl add Tris elution buffer up to the final volume of 200 µl.

2. Add **20 µl** of **proteinase K** and **200 µl** of **GTWT** lysis solution.

3. Vortex the sample for **20 s**.
   Incubate for **10 min** at **50 °C**.

4. Add **200 µl** of **96%-99% ethanol** (not included).

5. Intensively vortex the sample for **20 s**.

6. Apply the sample onto the minicolumn.

7. Centrifuge for **1 min** at **12 000-14 000 RPM**.

8. Transfer the minicolumns to **new** 2 ml tubes (included).

9. Add **500 µl** of **C1** first wash solution.

10. Centrifuge for **1 min** at **12 000-14 000 RPM**.

11. Transfer the minicolumns to **new** 2 ml tubes (included).

12. Add **500 µl** of **A1** second wash solution.

13. Centrifuge for **2 min** at **12 000-14 000 RPM**.

14. Transfer the minicolumns to **new** 1.5 ml elution tubes (not included).

15. Apply **100-200 µl** of **Tris** elution buffer directly onto the miniocolumn resin.

    If the blood sample volume is:
    - up to 100 µl - apply 100 µl of Tris buffer;
    - above 100 µl - apply 150-200 µl of Tris buffer.

16. Keep for **2 min** at **room temp.**

17. Centrifuge for **1 min** at **12 000-14 000 RPM**.

18. Remove the minicolumn. Store the purified DNA at **-20 °C** until later use.

Safety information

DANGER

Proteinase K

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
P261 Avoid breathing dust.
P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311 If experiencing respiratory symptoms call a Poison Center or doctor/physician.

WARNING

GTWT lysis solution

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DANGER

C1 first wash solution

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P261 Avoid breathing vapors.
P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DANGER

A1 second wash solution

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
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