

### Manual

# **Blood Mini**

Kit for genomic DNA purification from blood samples.

catalog#	size
022-50	50 isolations
022-250	250 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	
Additional equipment and reagents	3
Necessary	
Material preparation	4
Blood (fresh or frozen, up to $100  \mu l$ )	4
Blood (fresh or frozen, 200 $\mu$ l-1 ml)	4
Isolation protocol	
Safety information	7

#### **Contents**

component	022-50	022-250	storage
Minicolumns	50 pcs	250 pcs	15-25℃
2 ml tubes	50 pcs	250 pcs	15-25℃
LE solution	30 ml	140 ml	15-25℃
LT lysis solution	13 ml	60 ml	15-25℃
A1 wash solution	50 ml	250 ml	15-25℃
Tris buffer (10 mM, pH 8.5)	25 ml	110 ml	15-25 ℃
Proteinase K	1.1 ml	5 x 1.1 ml	4-8 °C

Note: if there is precipitation in the LT solution, heat the LT solution up to 40 °C until the precipitate dissolves.

## Additional equipment and reagents

### **Necessary**

- 1.5 ml, 2 ml sterile Eppendorf tubes
- Incubator or thermoblock set to 37 °C, 75 °C
- Vortex
- Microcentrifuge

### **Material preparation**

#### Blood (fresh or frozen, up to 100 µl)

- 1. Transfer 100 μl of blood to a 1.5 ml Eppendorf tube (not included).
  - Note: for blood volume less than 100  $\mu$ l, add Tris buffer to a total volume of 100  $\mu$ l.
- 2. Follow point 1. of the isolation protocol.

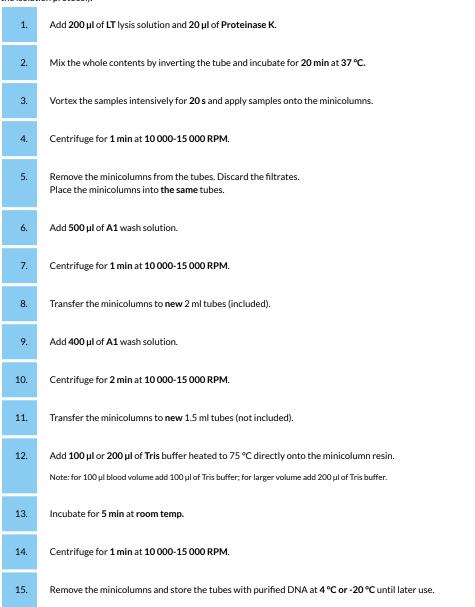
#### Blood (fresh or frozen, 200 µl-1 ml)

- Transfer the appropriate amount of blood to a 1.5 ml tube (not included).
  Add half of the volume of LE solution, e.g. add 250 μl of LE solution to 500 μl of blood.
- 2. Mix by inverting the tube until it becomes completely transparent.
- 3. Centrifuge for 3 min at 10 000-15 000 RPM.
- Discard the supernatant. Add 100 μl of Tris buffer to the pellet (leukocyte cells) and resuspend cells by pipetting.
- 5. Follow point 1. of the isolation protocol.

For a larger volume of blood samples we recommend Genomic Midi AX (cat. # 895-20) or Genomic Maxi AX (cat. # 995-10).

### **Isolation protocol**

Set the thermoblock temperature to 75  $^{\circ}$ C and place in it the tubes with Tris elution buffer (it will be used in point 12. of the isolation protocol).



### 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.

 $P305 + P351 + P338 \ If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, and the property of the property of$ 

if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms call a Poison Center or doctor/physician.



#### LT 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.







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** 



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