A&A BIOTECHNOLOGY
innovating life science

Manual

Swab

Kit for genomic DNA purification from swab samples.

catalog #	size
025-25	25 isolations
025-100	100 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	025-25	025-100	storage
Minicolumns	25 pcs	100 pcs	15-25 °C
2 ml tubes	50 pcs	200 pcs	15-25 °C
RL lysis solution	20 ml	80 ml	15-25 °C
A1 wash solution	30 ml	110 ml	15-25 °C
Tris elution buffer (10 mM, pH 8.5)	5 ml	16 ml	15-25 °C
Proteinase K	600 µl	2 x 1.1 ml	2-8 °C

Additional equipment and reagents

Necessary

- Cotton swabs or any other swab collection tools
- 1.5 ml, 2 ml sterile Eppendorf tubes
- Incubator or thermoblock set to 37 °C, 75 °C
- Vortex
- Microcentrifuge

Additional

- Sterile water (cat.# 003-075, 003-25)

Isolation protocol

Set the thermoblock temperature to 75 °C and place in it the tubes with Tris elution buffer (it will be used in point 13. of the isolation protocol).

1. Perform the swab samples using cotton swabs or swab tools (not included). Place them into 2 ml tubes (not included) by cutting off or using a swab tool ejector.

   Swab sample must be totally placed in the tube.

2. Add **700 µl** of **RL** lysis solution and **20 µl** of **proteinase K**.

   Swab sample must be totally submerged in RL solution and proteinase K.

3. Mix the whole contents. Incubate for **20 min** at **37 °C.** Vortex the samples from time to time.

4. Mix the samples and apply samples onto the minicolumns.

5. Centrifuge for **1 min** at **10 000-15 000 RPM**.

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

7. Add **500 µl** of **A1** wash solution.

8. Centrifuge for **1 min** at **10 000-15 000 RPM**.

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

10. Add **500 µl** of **A1** wash solution.

11. Centrifuge for **2 min** at **10 000-15 000 RPM**.

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

13. Add **150 µl** of **Tris** buffer or sterile water (not included) heated to 75 °C directly onto the minicolumn resin.

14. Incubate for **3 min** at **room temp.**

15. Centrifuge for **1 min** at **10 000-15 000 RPM**.

16. Remove the minicolumns and store the tubes with purified DNA at **4 °C or -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

RL 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

A1 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.

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