A&A BIOTECHNOLOGY
innovating life science

Manual

Clean-Up Maxi

Kit for DNA cleanup after PCR and other enzymatic reactions using restriction enzymes, ligase, kinase, etc.

catalog #	size
028-10	10 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	028-10	storage
Columns	10 pcs	15–25 °C
50 ml tubes	10 pcs	15–25 °C
Counterweight columns	1 pcs	15–25 °C
G binding solution	220 ml	15–25 °C
A1 wash solution	220 ml	15–25 °C
Tris buffer (10 mM, pH 8.5)	55 ml	15–25 °C

Additional equipment and reagents

Necessary

- Incubator or thermoblock set to 70 °C
- Centrifuge with swing-out rotor for 50 ml Falcon tubes

Additional

- Sterile water (cat.# 003-075, 003-25)
- TE buffer (cat.# 297-100)

Comments

- Binding capacity of column: 1 mg of DNA

Isolation protocol

For DNA elution, it is recommended to heat Tris buffer or another elution solution (TE buffer, sterile water) up to 70 °C.

1. Mix DNA samples (up to 10 ml) with **2 volumes** of **G** binding solution.
2. Mix and apply the samples (max 25 ml) onto the columns placed inside 50 ml tubes.
   Close the tubes with the screw caps.

   If the total volume of the mixture exceeds 25 ml, it should be divided and applied not more than 25 ml to each individual column.
3. In case of an odd number of samples a counterweight column should be used for centrifugation.

   Centrifuge for **2 min** at **4500 xg**.
4. Remove the columns, discard the filtrate. Place the columns to **the same** tubes.

   In case the total volume exceeds 25 ml, repeat step 2-4 of the isolation protocol.
5. Add **15 ml** of **A1** wash solution. Close the tubes with the screw caps.
6. Centrifuge for **2 min** at **4500 xg**.
7. Remove the columns, discard the filtrate. Place the columns to **the same** tubes.
8. Add **5 ml** of **A1** wash solution. Close the tubes with the screw caps.
9. Centrifuge for **20 min** at **4500 xg**.
10. Remove the columns, discard the filtrate. Place the columns to **the new** 50 ml tubes (included).
11. Add **5 ml** of preheated up to 70 °C **Tris** buffer (included), **TE** buffer or sterile water (not included) directly onto the column resin. Close the tubes with the screw caps.
12. Incubate for **2 min** at **room temp.**
13. Centrifuge for **2 min** at **4500 xg**.
14. Remove the columns and store the tubes with purified DNA at **4-8 °C** until later use.

Safety information

WARNING

G binding 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.

A&A BIOTECHNOLOGY
innovating life science

A&A Biotechnology, ul. Strzelca 40, 80-299 Gdańsk, Poland
phone +48 883 323 761, +48 600 776 268
info@aabiot.com, www.aabiot.com

version 2023-1