

Manual

Xpure™ Genomic Mini

Kit for genomic DNA purification from cell culture, tissue, cell lines.
Isolation columns packed individually in sterile conditions.

catalog #	size
096-50	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	3
Additional equipment and reagents	3
Necessary	3
Isolation protocol	4
Safety information	6

Contents

component	090-50	storage
Minicolumns with tubes (packaged in blisters)	50 pcs	room temp.
2 ml tubes	100 pcs	room temp.
A lysis solution	12 ml	room temp.
B binding solution	22 ml	room temp.
C wash solution	55 ml	room temp.
Tris buffer (10 mM, pH 8.5)	12 ml	room temp.
RNAse (10 mg/ml)	260 µl	-20 °C
Proteinase K	1.1 ml	4-8 °C

Additional equipment and reagents

Necessary

- 1.5 ml, 2 ml sterile Eppendorf tubes
- Incubator or thermoblock set to 50 °C, 70 °C
- Microcentrifuge

Isolation protocol

Set the thermoblock temperature to 70 °C and place in it the Tris elution buffer (it will be used in point 16. of the isolation protocol).

1. Transfer **cell, tissue samples (max 25 mg)** or **cell lines (> 1x10⁶)** to Eppendorf tube (not included).
2. Add **200 µl** of **A** lysis solution and **20 µl** of **proteinase K**.
3. Mix the sample by inverting the tube. Incubate for **1-2 h** at **50 °C** until the sample will be completely digested. Vortex the sample from time to time.
4. Centrifuge for **5 min** at **10 000 RPM**.
5. Transfer **200 µl** of **supernatant** to **new** 1.5 ml tubes (not included).
6. Add **400 µl** of **B** binding solution.
7. Mix the sample and apply onto the minicolumn.
8. Centrifuge for **1 min** at **12 000-14 000 RPM**.
9. Transfer the minicolumns to **new** 2 ml tubes (included).
10. Add **500 µl** of **C** wash solution.
11. Centrifuge for **1 min** at **12 000-14 000 RPM**.
12. Transfer the minicolumns to **new** 2 ml tubes (included).
13. Add **500 µl** of **C** wash solution.
14. Centrifuge for **2 min** at **12 000-14 000 RPM**.
15. Transfer the minicolumns to **new** 1.5 ml elution tubes (not included).
16. Apply **150 µl** (from 100 µl up to 200 µl) of **Tris** elution buffer heated to 70 °C directly onto the minicolumn resin.

17. Keep for **2 min** at **room temp.**
18. Centrifuge for **1 min** at **12 000-14 000 RPM.**
19. Remove the minicolumn. Store the tube with 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

A 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

B binding 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

C 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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