

## Manual

# Xpure™ Cell&Tissue micro

Kit for genomic DNA purification from small quantities of cell culture, tissue, cell lines and small invertebrates.  
Isolation columns packed individually in sterile conditions.

catalog #	size
090-50	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

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## Contents

component	090-50	storage
<b>Microcolumns with tubes</b> (packaged in blisters)	50 pcs	room temp.
<b>1.5 ml tubes</b>	50 pcs	room temp.
<b>2 ml tubes</b>	50 pcs	room temp.
<b>A</b> lysis solution	6 ml	room temp.
<b>B</b> binding solution	12 ml	room temp.
<b>C</b> wash solution	44 ml	room temp.
Tris buffer (10 mM, pH 8.5)	3 ml	room temp.
<b>Proteinase K</b>	600 µl	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 buffer (it will be used in point 13. and 16. of the isolation protocol).

1. Transfer **cell, tissue samples (max 10 mg)** or **cell lines (up to  $1 \times 10^6$ )** to Eppendorf tube (not included).
2. Add **100 µl** of **A** lysis solution and **10 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. Add **200 µl** of **B** binding solution.
5. Mix the sample and apply onto the microcolumns. Close the tubes with the caps.
6. Centrifuge for **1 min** at **12 000-14 000 RPM**.
7. Add **400 µl** of **C** wash solution (there is no need to remove the filtrate from the collection tube). Close the tubes with the caps.
8. Centrifuge for **1 min** at **12 000-14 000 RPM**.
9. Transfer the microcolumns to **new** 2 ml tubes (included).
10. Add **400 µl** of **C** wash solution. Close the tubes with the caps.
11. Centrifuge for **2 min** at **12 000-14 000 RPM**.
12. Transfer the microcolumns to **new** 1.5 ml elution tubes (included).
13. Add **25 µl** of **Tris** elution buffer heated to 70 °C directly onto the microcolumn resin. Close the tubes with the caps.
14. Keep for **2 min** at **room temp**.
15. Centrifuge for **1 min** at **12 000-14 000 RPM**.
16. Add **25 µl** of **Tris** buffer heated to 70 °C directly onto the microcolumn resin.

Close the tubes with the caps.

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

18. Remove the microcolumns. Close the tubes with the caps.

19. Store the tube with purified DNA at **-20 °C** until later use.

Elution tubes have a long, elastic cap connector. Start closing the tube by carefully pressing the cap on the connector side. An opening „click“ sound confirms proper closure. Different ways of closing may cause opening of the tube during storage.

# 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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