A&A BIOTECHNOLOGY
innovating life science

Clean-Up RNA Concentrator

Kit for RNA preparations concentration and DNA residues removal
version 1018

25 isolations, 100 isolations

Cat. # 039-25C, 039-100C

The binding capacity of the RNA purification column is 10 µg of RNA.

For R&D use only.

A&A BIOTECHNOLOGY, Aleja Zwycięstwa 96/98, 81-451 Gdynia, Poland
tel: +48 58 6982194, +48 883 323 761, **fax:** +48 58 6228578
VAT PL584-025-44-03
info@aabiot.com www.aabiot.com

Kit Contents

Component	25 isolations	100 isolations	Store at
Microcolumns for RNA purification	25 pcs	100 pcs	Room Temp.
1.5 ml elution tubes	25 pcs	100 pcs	Room Temp.
2 ml tubes	25 pcs	100 pcs	Room Temp.
DNAse (RNAse free), 10 U/µl	60 µl	240 µl	-20 °C
10x DNAse reaction buffer	1.5 ml	3 x 1.5 ml	-20 °C
A1 wash solution	30 ml	120 ml	Room Temp.
B1 DNAse removing buffer	20 ml	70 ml	Room Temp.
Sterile water (nuclease free, DEPC treated)	8 ml	15 ml	from -20 °C to +20 °C

Equipment and materials necessary for RNA isolation that are not included in kit

1. Already isolated RNA sample or post enzymatic reaction that contains RNA
2. Benchtop microcentrifuge
3. Heatblock or incubator set to 37 °C

NOTE:
Before you start working, we recommend cleaning the work surface using LabZAP™ product (cat. # 040-500)

A&A Biotechnology provides one year guarantee on this kit

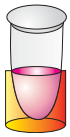
The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- not recommended use of equipment and materials
- the use of other reagents than recommended or which are not a component of the kit
- the use of expired or improperly stored reagents and columns

Purification protocol

1. To 50–100 µl of already isolated RNA samples add:
   12 µl 10x DNAse reaction buffer,
   2 µl DNAse,
   sterile water up to 120 µl.
   Gently mix by pipetting.

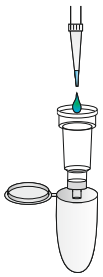
2. Incubate the samples for 15 min at 37 °C.



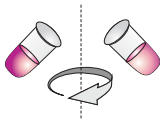
3. Add 600 µl of B1 buffer.

4. Throughly mix and apply onto the microcolumns.

   Close the tubes with the caps.

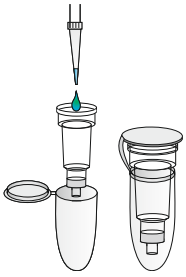


5. Centrifuge for 30–60 s at 10 000 RPM.

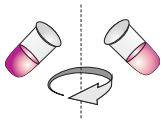


6. Transfer the microcolumns to new 2 ml tubes with caps (included).
   Add 600 µl of A1 wash solution.

   Close the tubes with the caps.

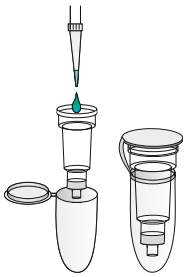


7. Centrifuge for 1 min at 10 000 RPM.

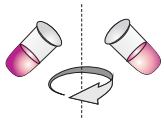


8. Discard the flow though from the 2 ml tubes and re-attach the microcolumns to the same 2 ml tubes.
Add 400 µl of A1 wash solution.

Close the tubes with the caps.

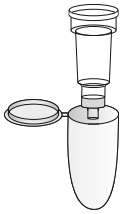


9. Centrifuge for 2 min at 10 000 RPM.

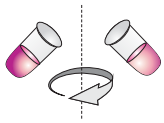


10. Open the tubes. Transfer the dry microcolumns into the 1.5 ml elution tubes (included).
Add 15-30 µl of sterile water.

Close the tubes with the caps.



11. Incubate for 2 min at room temp.
Centriguge for 1 min at 10 000 RPM.



12. Open the tubes, remove the microcolumns, close the tubes.

Store the purified RNA samples at -20 °C or -80 °C.

Elution tube has a long, elastic cap connector. Start closing the tube by careful pressing the cap on the connector side. A opening „click" sound confirms proper closure. Different way of closing may cause opening of the tube during storage.

Safety information

DANGER

A1 wash solution
H225 Highly flammable liquid and vapour.
H319 Cuses serious eye irritation.
H336 May cause drowsiness or dizziness.
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P261 Avoid breathing vapours.
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

B1 DNAse removing buffer
H225 Highly flammable liquid and vapour.
H319 Cuses serious eye irritation.
H336 May cause drowsiness or dizziness.
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P261 Avoid breathing vapours.
P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.