A&A BIOTECHNOLOGY
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Manual

Clean-Up RNA Concentrator

Kit for RNA preparations concentration and DNA residues removal.

catalog #	size
039-25C	25 isolations
039-100C	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	25 isolations	100 isolations	storage
Microcolumns for RNA purification	25 pcs	100 pcs	15–25 °C
1.5 ml elution tubes	25 pcs	100 pcs	15–25 °C
2 ml tubes	25 pcs	100 pcs	15–25 °C
DNAse, RNAse free (10 U/µl)	60 µl	220 µl	-20 °C
10x DNAse reaction buffer	1.5 ml	1.5 ml	-20 °C
A1 wash solution	30 ml	110 ml	15–25 °C
B1 DNAse removing buffer	20 ml	70 ml	15–25 °C
Ultrapure water	8 ml	15 ml	-20–25 °C

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

Additional equipment and reagents

Necessary

- 1.5 ml sterile Eppendorf tubes
- Microcentrifuge
- Heatblock or incubator set to 37 °C

Important notes

When working with RNA, use RNAse-free consumables. Work sterile, use disposable gloves and change them whenever good laboratory practice requires it.

Purification protocol

1.	To **50-100 µl** of **isolated RNA samples** add: **12 µl** of **10x DNAse reaction buffer**, **2 µl** of **DNAse**, **ultrapure water** up to **120 µl**. Gently mix by pipetting.
2.	Incubate the sample for **15 min** at **37 °C**.
3.	Add **600 µl** of **B1** buffer.
4.	Thoroughly mix and apply onto the microcolumn. Close the tube with the cap.
5.	Centrifuge for **30-60 s** at **10 000 RPM**.
6.	Transfer the microcolumn to **a new** 2 ml tube (included).
7.	Add **600 µl** of **A1** wash solution. Close the tube with the cap.
8.	Centrifuge for **1 min** at **10 000 RPM**.
9.	Remove the microcolumn from the tube and discard the filtrate. Place the microcolumn into the same tube.
10.	Add **400 µl** of **A1** wash solution. Close the tube with the cap.
11.	Centrifuge for **2 min** at **10 000 RPM**.
12.	Transfer the microcolumn to **a new** 1.5 ml tube (included).
13.	Add **15-30 µl** of **ultrapure water** directly onto the microcolumn resin. Close the tube with the cap.
14.	Keep for **2 min** at **room temp.**

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

16. Remove the microcolumn and store the tube with purified RNA at **-20 °C, -80 °C** until later use.

Elution tube has a long, elastic cap connector. Start closing the tube by careful 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

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.

DANGER

B1 DNAse removing buffer

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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