



A&A BIOTECHNOLOGY
innovating life science

Manual

CoV RNA

Kit for the isolation of viral RNA from swabs.

catalog #	size
034C-50	50 isolations
034C-100	100 isolations
034C-200	200 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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Specification

form	minicolumn
binding capacity	100 µg of RNA
sample size	swab sample
elution volume	from 60 µl

Contents

component	034C-50	034C-100	034C-200	storage
Minicolumns	50 pcs	100 pcs	200 pcs	15-25 °C
2 ml tubes	100 pcs	200 pcs	400 pcs	15-25 °C
A1 wash solution	100 ml	200 ml	400 ml	15-25 °C
R9F solution	17 ml	34 ml	66 ml	15-25 °C
Isopropanol	15 ml	30 ml	60 ml	15-25 °C
Ultrapure water	8 ml	8 ml	15 ml	-20-25 °C

Additional equipment and reagents

- 1.5 ml sterile Eppendorf tubes
- Vortex
- Microcentrifuge

Important notes

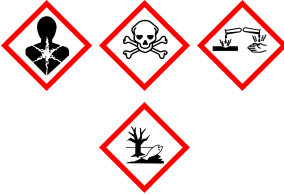
When working with RNA, use RNase-free consumables. Work sterile, use disposable gloves and change them whenever good laboratory practice requires it.

Isolation protocol

1. Transfer **150 µl** of transport medium to a 1.5 ml Eppendorf tube (not included).
2. Add **300 µl** of **R9F** solution.
3. Vortex for **10 s**.
4. Keep for **10 min** at **room temp**.
5. Add **250 µl** of **isopropanol**.
6. Close the tube and mix by vortexing.
7. Apply the whole sample (around 700 µl) onto the **minicolumn**.
8. Centrifuge for **1 min** at **12 000-14 000 RPM**.
9. Transfer the **minicolumn** to a new **2 ml tube** (included).
10. Add **700 µl** of **A1** wash solution.
11. Close the tube and mix by vortexing for **5 s**.
12. Centrifuge for **1 min** at **12 000-14 000 RPM**.
13. Transfer the **minicolumn** to a new **2 ml tube** (included).
14. Add **700 µl** of **A1** wash solution.
15. Centrifuge for **1 min** at **12 000-14 000 RPM**.
16. Discard the filtrate from the **2 ml tube**.
17. Add **300 µl** of **A1** wash solution.

18. Centrifuge for **2 min** at **12 000-14 000 RPM**.
19. Transfer the **minicolumn** to a **sterile 1.5 ml tube** (not included).
20. Add **60 µl** of **ultrapure water** directly onto the **minicolumn** resin.
Note: Avoid touching the membrane by a pipette tip.
21. Keep for **3 min** at **room temp**.
22. Centrifuge for **1 min** at **12 000-14 000 RPM**.
23. Remove the **minicolumn**, close the tube with the isolated RNA and store it at **-20 °C**.

Safety information



DANGER

R9F solution

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H341 Suspected of causing genetic defects.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long-lasting effects.
 P261 Avoid breathing dust.
 P273 Avoid release to the environment.
 P280 Wear protective gloves, protective clothing, eye protection, face protection.
 P301+P310 If swallowed: immediately call a Poison Center or doctor/physician.
 P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a Poison Center or doctor/physician.



DANGER

Isopropanol

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

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.



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