

INTENDED USE

AZUL SARS-CoV-2 RNA Extraction Kit offers a straightforward and highly efficient solution for extracting total RNA from SARS-CoV-2 virus particles present in VTM or MTM obtained from COVID-19 positive patients via throat/nasopharyngeal swabs.

SUMMARY AND EXPLANATION

This kit uses a silica-based spin column technology for isolating RNA from biological samples, thereby eliminating toxic phenol-chloroform extractions. The eluted RNA is suitable for all sensitive downstream applications such as qPCR and Next-Generation sequencing.

PRODUCT FEATURES

- Rapid purification of high-quality, ready-to-use RNA.
- No organic extraction or alcohol precipitation.
- Consistent and high yields.
- Complete removal of contaminants and inhibitors for reliable results.
- Kit formats for low- to high-throughput – options for automation of all kits.

PRECAUTIONS

- Avoid all skin contact with reagents in this kit. In case of contact, wash thoroughly with water.
- AZUL SARS-CoV-2 RNA Extraction Kit is intended for use as supplied. Do not dilute or add other components to the AZUL SARS-CoV-2 RNA Extraction Kit.

DIRECTIONS FOR USE

1. 300µL of clinical samples collected from viral transport medium (VTM) or molecular transport medium (MTM) is added to a 1.5mL microfuge tube having 300 µL of Lysis Buffer and mixed well by pipetting up and down for complete homogenization of the sample. Vortex for 30 seconds to mix thoroughly. Centrifuge the microfuge tube for 5 min at 13,000 rpm.
2. Transfer the clear supernatant into a new sterile microcentrifuge tube.
3. Add 300 µL - 500 µL of Binding Buffer and mix slowly by pipetting.
4. Transfer up to 700µL lysate to the spin column inserted in a collection tube. Centrifuge the column for 2 min at 12,000 rpm.
5. Discard the flowthrough and place the purification column back into the collection tube. Repeat this step until the entire lysate has been transferred into the column and centrifuged.
6. Add 600 µL of Wash Buffer 1 to the spin column and centrifuge for 1 min at 12000 rpm.
7. Add 500 µL of Wash Buffer 2 to the spin column and centrifuge for 1 min at 12000 rpm.
8. Transfer purification to a clean, sterile microfuge tube and add 30µL - 50µL of TE buffer or DNase/RNase-free water to the centre of the column.
9. Centrifuge the column at 12,000 rpm for 2min.
10. Discard the purification column and use the flowthrough with RNA directly for the quantitative real time PCR application.
11. Store the isolated RNA at -20°C or -80°C until use.

KIT COMPONENTS

Components	For 50 preps	For 25 preps
Lysis Buffer(LB)	15mL	8mL
Binding buffer(BB)	25mL	13mL
Wash Buffer 1(WB1)	30mL	15mL
Wash Buffer 2(WB2)	25mL	13mL
Elution Buffer(EB)	4mL	2mL
Spin Column	50 (Pouch pack)	25 (Pouch pack)

CAUTION

- Check the Lysis Buffer and Binding Buffer for any salt precipitation before every use.
- Re-dissolve any precipitate by warming the solution to 37°C, then cool it back to room temperature before use.
- During operation, always wear a lab coat, disposable gloves, protective goggles and mask.

KIT STORAGE AND STABILITY

- Store the kit at room temperature.
- Viable for 1 year if stored at appropriate conditions.

ORDERING INFORMATION

Please call us at +91 8088747968 or mail at hello@azooka.life for any queries or assistance. Additional information can be found online at www.azooka.life



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