AZUL BLOOD RNA EXTRACTION KIT

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INTENDED USE

AZUL Blood RNA Extraction Kit is an easy and efficient system for the isolation of total RNA from whole blood.

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

1. AZUL Blood RNA Extraction kits are intended for use as supplied. Do not dilute or add other components to the AZUL Blood RNA Extraction kit.
2. Dispose of used reagents, debris and consumables as hazardous waste according to established laboratory procedures.
3. Use RNase free plasticware/reagents and aerosol-barrier pipet tips for better yields.

DIRECTIONS FOR USE

1. Take 200 µL- 1 mL of Blood (stored in EDTA/Citrate/mWRAPR Blood RNA Collection Tubes) in a clean 2.0 mL microfuge tube and centrifuge at 3,000 rpm for 10 mins.
2. To the pellet obtained, add Lysis Buffer 1 up to 2 mL, invert, and mix well. Centrifuge the tube at 3,000 rpm for 10 mins and discard the red supernatant. Repeat this step once again.
3. Add up to 2 mL of Stabilization Buffer (STB) to the pellet and briefly mix the contents in the tube. Centrifuge at 3,000 rpm for 10 mins. Discard the supernatant.
4. Add 500 µL of Lysis Buffer 2 to the pellet obtained and mix briefly by vortexing the tubes. Add 20 µL of Proteinase K, invert and mix, incubate the tubes at 56°C for 30 mins.
5. Centrifuge at 13,000 rpm for 10 mins. Transfer the supernatant to a fresh tube, add 500 µL Binding Buffer, invert, and mix the contents of the tube.
6. Transfer the lysate to the spin column inserted in a collection tube. Centrifuge the tube at 13,000 rpm for 2 mins, discard the flow through, and place the purification column back into the collection tube. Repeat this step until complete lysate has been transferred into the column and centrifuged.
7. Wash the spin column with 600 µL Wash Buffer 1 (WB1) at 13,000 rpm for 1 min and discard the flow through.
8. Wash the spin column with 500 µL Wash Buffer 2 (WB2) at 13,000 rpm for 1 min to completely remove salts and impurities.
9. Keep the purification column in a clean, sterile 1.5 mL microfuge tube and add 30 µL - 50 µL of Elution Buffer or DNase/RNase-free water to the centre of the column.
10. Centrifuge the column for 13,000 rpm for 2 mins.
11. Discard the purification column and store the eluted RNA at -20°C or -80°C until use.

KIT COMPONENTS

Components	For 50 preps	For 25 preps
Stabilization Buffer (STB)	100 mL	50 mL
Lysis Buffer 1 (LB1)	200 mL	100 mL
Lysis Buffer 2 (LB2)	25 mL	15 mL
Binding Buffer (BB)	25 mL	15 mL
Proteinase K	1.5 mL	1 mL
Wash Buffer 1 (WB1)	30 mL	15 mL
Wash Buffer 2 (WB2)	25 mL	15 mL
Elution Buffer (EB)	4 mL	2 mL
Spin Column	50 (Pouch pack)	25 (Pouch pack)

CAUTION

- Check the Binding Buffer and Lysis 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 and Proteinase K at -20°C.
- 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

MANUFACTURED AT:
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