

INTENDED USE

AZUL FFPE RNA Extraction Kit is an easy and efficient system for the isolation of RNA from formalin fixed paraffin-embedded samples using spin columns.

SUMMARY AND EXPLANATION

This kit uses a spin column based extraction for isolating RNA from FFPE samples. The eluted FFPE-RNA is suitable for all sensitive downstream applications such as qPCR and Next-Generation sequencing.

PRODUCT FEATURES

- Rapid purification of 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 FFPE RNA extraction kit for FFPE samples are intended for use as supplied. Do not dilute or add other components to the AZUL FFPE-RNA Extraction kit for FFPE samples.
- 2.Avoid all skin contact with reagents in this kit. In case of contact, wash thoroughly with water.

DIRECTIONS FOR USE

- 1.Trim off excess paraffin from the sides. Cut up to 3-8 sections of 10 µm thickness. Immediately transfer the sections to a clean 2mL vial and add 1mL of deparaffinization solvent vortex vigorously for 10 seconds.
2. Centrifuge the tube at 15,000 rpm for 2 mins.
- 3.Discard the supernatant without disturbing the pellet.
- 4.Add 1 mL of 100% ethanol to the pellet and vortex briefly.
- 5.Centrifuge at 15,000 rpm for 2 mins.
- 6.Discard the supernatant without disturbing the pellet.
- 7.Open the tube and incubate at room temperature or 37°C for 10 mins until ethanol has evaporated.
- 8.To the pellet add 400 µL of Lysis buffer (LB) and vortex for 10 seconds. Add 20 µL of Proteinase K, invert and mix the tubes well.
- 9.Incubate at 56°C for 1 hour.
- 10.Follow with an incubation at 80°C for 1 hour.
- 11.Allow the samples to cool down and briefly centrifuge the tubes to remove drops from inside the lid.
- 12.Transfer the clear lysate to a clean microfuge tube and add 400 µL Binding Buffer (BB) to the lysate and mix briefly by inverting the tube a few times.
- 13.Transfer the suspension to a spin column and centrifuge the tube at 14,000 rpm for 1 min at RT.
- 14.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.
- 15.Wash the spin column with 500µL Wash Buffer 1 (WB1) at 14,000 rpm for 1 min and discard the flow through.
- 16.Add 500µL of Wash Buffer 2 (WB2) to the column and centrifuge at 14,000 rpm for 1 min to completely remove salts and impurities.
- 17.Centrifuge at 14,000 rpm for 1 min to prevent carryover of ethanol to the eluate.
- 18.Keep the purification column in a clean, sterile 1.5 mL microfuge tube and add 35µL- 50µL of Elution Buffer. Incubate at RT for 1 min.
- 19.Centrifuge the column for 14,000 rpm for 2 min.
- 20.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    |
|-------------------------|-----------------|-----------------|
| Deparaffinizing solvent | 50mL            | 25mL            |
| Lysis Buffer(LB)        | 20mL            | 10mL            |
| Proteinase K            | 1mL             | 500µL           |
| Binding buffer(BB)      | 20mL            | 10mL            |
| Wash Buffer 1(WB1)      | 25mL            | 13mL            |
| Wash Buffer 2(WB2)      | 25mL            | 13mL            |
| Elution Buffer(EB)      | 4mL             | 2mL             |
| Spin Column             | 50 (Pouch pack) | 25 (Pouch pack) |

CAUTION

- Check the 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.
- Close the lid of Binding Buffer immediately after 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](mailto:hello@azooka.life) for any queries or assistance. Additional information can be found online at [www.azooka.life](http://www.azooka.life)



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