AZUL FFPE-DNA EXTRACTION KIT

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INTENDED USE

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

SUMMARY AND EXPLANATION

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

PRODUCT FEATURES

- Rapid purification of ready-to-use DNA.
- 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 DNA extraction kit for FFPE samples are intended for use as supplied. Do not dilute or add other components to the AZUL FFPE-DNA 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 DNA 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 for any queries or assistance.
Additional information can be found online at www.azooka.life

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