AZUL POLLEN DNA EXTRACTION KIT

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INTENDED USE

AZUL Pollen DNA Extraction Kit is an easy and efficient system for the isolation of pollen DNA from samples like honey.

SUMMARY AND EXPLANATION

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

PRODUCT FEATURES

- Rapid purification of high-quality, 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

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

DIRECTIONS FOR USE

1. Take 3 mL of Honey (which might contain pollen cells) dissolve in 1 ml sterile water and incubate at 65°C for 30 min.
2. Centrifuge at 5000 rpm for 10 min. Discard the supernatant, and air dry the pellet for 5 mins at room temperature.
3. Add 700 µl extraction buffer 1, 4 glass beads and vortex well for 1-2 mins.
4. Add 100 µl of lysis buffer 1 and 10 µl proteinase K, mix by gentle inversion, and incubate at 56°C for 1 hour.
5. To this add 500 µl extraction buffer 2, 10 µl proteinase K, and 50 µl lysis buffer 2, mix well and incubate at 65°C for 4 hours - overnight.
6. Centrifuge at 10,000 rpm for 10 mins. Transfer the clear supernatant to a 2 ml Eppendorf tube, further add 500 µl of binding buffer and mix well.
7. Transfer the lysate to a clean spin column. Centrifuge the spin column at 13,000 rpm for 2 min at RT.
8. Discard the flow-through 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.
9. Wash the spin column with 500 µL Wash Buffer (WB) at 13,000 rpm for 1 min and discard the flow through. Repeat this step again.
10. Keep the purification column in a clean, sterile 1.5 mL microfuge tube and add 30 µL of Elution Buffer or DNase/RNase-free water to the center of the column.
11. Centrifuge the column for 13,000 rpm for 2 min.
12. 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
Extraction Buffer 1	36mL	18mL
Lysis Buffer 1(LB1)	6mL	3mL
Extraction Buffer 2	26mL	13mL
Lysis Buffer 2(LB2)	3mL	1.5mL
Proteinase K	1mL	0.5mL
Glass Beads	200	125
Binding buffer(BB)	30mL	15mL
Wash Buffer (WB)	60mL	30mL
Elution Buffer(EB)	4mL	2mL
Spin Column	50 (Pouch pack)	25 (Pouch pack)

CAUTION

- Check the buffers 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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