AZUL Skin DNA EXTRACTION KIT

azooka

INTENDED USE

AZUL Skin DNA Extraction Kit is an easy and efficient system for the isolation of high-quality microbial and host DNA from skin microbiome samples collected using a skin patch or swab

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

- AZUL Skin DNA Extraction kits are intended for use as supplied. Do not dilute or add other components to the AZUL Skin DNA Extraction kit.
- Dispose of used reagents, debris, and consumables as hazardous waste according to established laboratory procedures.

DIRECTIONS FOR USE

1. Take around 500 µL - 1 mL skin microbiome samples collected in any medium or stored in mWRAPR Skin Microbiome stabilization solution in a microfuge tube.
2. Add 500 µL - 700 µL of Lysis Buffer 1 (LB1), and 50 µL of Lysis Buffer 2 (LB2) into the tube.
3. Mix briefly by vortexing the tube for 30 sec.
4. Add 50 µL of Proteinase K to the tube and incubate at 56°C for 30 mins.
5. Centrifuge the tube at 15,000 rpm for 10 mins. Transfer the clear supernatant to a new microfuge tube.
6. Add 500 µL Binding Buffer (BB) to this suspension and mix briefly by inverting the tube a few times. Incubate the tube at -20°C for 15 mins.
7. Mix well and transfer the suspension to a spin column and centrifuge the tube at 15,000 rpm for 2 mins.
8. 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.
9. Wash the spin column with 500 µL Wash Buffer 1 (WB1) at 15,000 rpm for 1 min and discard the flow through.
10. Add 500 µL of Wash Buffer 2 (WB2) to the column and centrifuge at 15,000 rpm for 1 min to completely remove salts and impurities.
11. Keep the purification column in a clean, sterile 1.5 mL microfuge tube and add 25 µL - 30 µL of Elution Buffer or DNase/RNase-free water to the center of the column.
12. Centrifuge the column for 15,000 rpm for 2 mins.
13. 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
Lysis Buffer 1 (LB1)	35 mL	20 mL
Lysis Buffer 2 (LB2)	3 mL	2 mL
Binding Buffer (BB)	25 mL	15 mL
Proteinase K	3 mL	2 mL
Wash Buffer 1 (WB1)	25 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, Proteinase K and Lysis Buffer 2 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:
1A, Kushal Garden Arcade, 'C' Block, 5th Floor, Peenya Industrial Area, 2nd Phase, Bengaluru, Karnataka, India- 560058

ISO 13485 CERTIFIED

CE IVDR