AZUL BACTERIAL DNA EXTRACTION KIT

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INTENDED USE

AZUL Bacterial DNA Extraction Kit is an easy and efficient system for the isolation of total DNA from bacterial cells (both Gram-positive and Gram-negative bacteria).

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 Bacterial DNA Extraction kit is intended for use as supplied. Do not dilute or add other components to the AZUL Bacterial DNA Extraction kit.

DIRECTIONS FOR USE

1. In a 1.5 mL microfuge tube, take around 500µL - 1mL of bacterial culture and centrifuge at 12,000 rpm for 2 mins to pellet the cells.
2. Add 500µL of Lysis Buffer to the pellet and mix briefly by vortexing for 30 seconds.
3. Centrifuge at 13,000 rpm for 5 minutes at room temperature.
4. Carefully transfer the clear supernatant to a new 1.5 mL microfuge tube. Add 500µL of Binding Buffer and mix the tube briefly by inverting it a few times.
5. Transfer 800µL lysate to the spin column inserted in a collection tube. Centrifuge at 12,000 rpm for 2 mins.
6. 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.
7. Add 600µL of Wash Buffer 1 to the column and centrifuge at 12,000 rpm for 1 min.
8. Add 500µL of Wash Buffer 2 to the column and centrifuge at 12,000 rpm for 1 min to completely remove salts and impurities.
9. Transfer the purification column to a clean, sterile microfuge tube and add 30µL- 50µL of Elution Buffer or DNase/RNase-free water to the centre of the column.
10. Centrifuge the column at 12,000 rpm for 2 minutes.
11. 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(LB)	25mL	13mL
Binding buffer(BB)	25mL	13mL
Wash Buffer 1(WB1)	30mL	15mL
Wash Buffer 2(WB2)	25mL	13mL
Elution Buffer(EB)	4mL	2mL
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.
- 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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