AZUL PLASMID DNA EXTRACTION KIT

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INTENDED USE

AZUL Plasmid DNA Extraction Kit is an easy and efficient system for the isolation of plasmid DNA from bacterial cells.

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

DIRECTIONS FOR USE

1. In a 1.5mL microfuge tube, transfer up to 1mL of the bacterial culture and centrifuge at 15,000 rpm for 2 mins to pellet the cells.
2. To the pellet, add 200µL-300µL of P1 Buffer. Mix briefly by vortexing for 30 seconds.
3. Add 200µL-300µL of P2 Buffer to the same tube and mix by inverting gently until the solution turns transparent. Do not vortex. Incubate at RT for 5 min.
4. Add 350µL of P3 Buffer and mix by inverting 3-4 times. Centrifuge at 15,000 rpm for 10 min.
5. Carefully transfer the clear supernatant to the new 1.5 mL microfuge tube. 500µL of Binding Buffer is added to this tube and mixed slowly by inverting the tube 5 times. Incubate at -20°C for 15 min.
6. Transfer up to 800µL lysate to the spin column inserted in a collection tube. Centrifuge at 13,000 rpm for 3 min. Discard the flow-through and place the purification column back into the collection tube.
7. Repeat this step until the entire lysate has been transferred into the column and centrifuged.
8. Add 500µL of Wash Buffer (WB) to the column and centrifuge at 15,000 rpm for 1 min. Discard the flow-through and place the purification column back into the collection tube.
9. Repeat step 7 once again to remove salts and impurities completely.
10. Spin the column at 15,000 rpm for 1 min to dry the column. Place the tube at RT for 2 mins.
11. Transfer the purification column to a clean, sterile microfuge tube and add 50µL of Elution Buffer or DNase/RNase-free water to the centre of the column. Centrifuge the column for 15,000 rpm for 1 min.
12. Discard the purification column and store the eluted Plasmid DNA at -20°C or -80°C until use.

KIT COMPONENTS

Components	For 50 preps	For 25 preps
P1 Buffer	15mL	8mL
P2 Buffer	15mL	8mL
P3 Buffer	20mL	10mL
Binding buffer(BB)	25mL	13mL
Wash Buffer (WB)	50mL	25mL
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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