AZUL GEL DNA EXTRACTION KIT

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INTENDED USE

AZUL Gel DNA Extraction Kit offers a fast, efficient, and safe method for isolating high-purity DNA from agarose gel slices.

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

DIRECTIONS FOR USE

1. Excise the DNA fragment from the agarose gel with a clean, sharp scalpel. Minimize the size of the gel slice by removing extra agarose.
2. Weigh the gel slice in a colorless tube. Add 3 volumes of Gel Solubilization Buffer to 1 volume of gel (100 mg ~ 100 µl). For example, add 300 µl of Gel Solubilization Buffer to each 100 mg of gel. For >2% agarose gels, add 6 volumes of Gel Solubilization Buffer. The maximum amount of gel slice per column is 400 mg.
3. Incubate at 55°C for 10 min (or until the gel slice has completely dissolved). To help dissolve gel, mix by vortexing the tube every 2–3 min during the incubation.
4. After the gel slice has dissolved completely, add equal volume of Binding buffer to the sample and mix.
5. Transfer 800µL lysate to the spin column inserted in a collection tube. Centrifuge at 12,000 rpm for 1 min.
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 500µL of Wash Buffer 1 to the column and centrifuge at 12,000 rpm for 1 min. Repeat this step again.
8. Transfer the purification column to a clean, sterile microfuge tube and add 30µL of Elution Buffer or DNase/RNase-free water to the centre of the column.
9. Centrifuge the column at 12,000 rpm for 1 min.
10. 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
Gel Solubilization Buffer	50mL	25mL
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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