AZUL CF-DNA EXTRACTION KIT

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INTENDED USE

AZUL cf-DNA Extraction Kit is an easy and efficient system for the isolation of cf-DNA from plasma and serum samples.

SUMMARY AND EXPLANATION

This kit uses a spin column based extraction for isolating cf-DNA from plasma and serum samples. The eluted cf-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 cf-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

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

DIRECTIONS FOR USE

Plasma separation from Blood:

- Take the whole blood samples and centrifuge at 5,400 rpm for 10 mins, and transfer the plasma into a new microfuge tube.
- Centrifuge the separated plasma at 15,000 rpm for 20 mins to separate any remaining cells or particulate matter & transfer it into a new microfuge tube.
- The plasma samples can be stored at −20°C until further use.

cf-DNA Extraction:

1. Add 50 µL of Lysis Buffer (LB) to 500 µL of Plasma and vortex the mixture for 15 sec.
2. Add 20 µL of Proteinase K to the sample and mix well by inverting the tube 4-5 times.
3. Incubate the mixture for 1 hour at 56°C.
4. Add 750 µL of Binding Buffer (BB) to the mixture. Mix by inverting the tube a few times.
5. Transfer the lysate to a spin column and centrifuge the tube at 2000xg for 30 sec. Without removing the spin column, centrifuge again at the speed of 11,000xg for 5 sec.
6. 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.
7. Wash the spin column with 500 µL Wash Buffer 1 (WB1) at 11,000xg for 30 sec and discard the flow through.
8. Wash the spin column with 250 µL Wash Buffer 2 (WB2) at 11,000xg for 2 mins and discard the flow through.
9. Centrifuge the spin column again for 1 min at 11,000xg to remove any excess wash buffer.
10. Keep the purification column in a clean, sterile 1.5 mL microfuge tube and add 20 µL- 30 µL of Elution Buffer or DNase/RNase-free water to the center of the column.
11. Centrifuge the column for 11,000xg for 30 sec.
12. Discard the purification column and store the eluted cf-DNA at -20°C or -80°C until use.

KIT COMPONENTS

Components	For 50 preps	For 25 preps
Lysis Buffer (LB)	4 mL	2 mL
Binding Buffer (BB)	40 mL	20 mL
Proteinase K	1.5 mL	1 mL
Wash Buffer 1 (WB1)	25 mL	15 mL
Wash Buffer 2 (WB2)	15 mL	8 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 and Proteinase K 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:
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