GEONOMIX
PLANT DNA PURIFICATION (Column Based)

DATA SHEET

Cat. No:	GE-004
Lot No:	
Amount:	50 purifications
Shipping:	Ambient temperature
Storage Conditions:	Room temperature for all reagents
Shelf Life:	One year from the date of manufacture
Form:	Silica columns, Buffers

KIT CONTENTS

Solution A:	Lysis Buffer, 30 mL
Solution B:	Binding Buffer, 40 mL, Add 45 mL of 96% Ethanol
Solution C:	Wash Buffer I, 20 mL, Add 20mL of 96% Ethanol
Solution D:	Wash Buffer II, 15 mL, Add 15mL of 96% Ethanol
Solution E:	Elution Buffer, 7 mL
G-spin® columns:	50 pieces
Collection tubes	50 pieces

QUALITY CONTROL STATEMENT

Passes quality control requirement:

Date, Signature:

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PROCEDURE

Note: 50 mg of solid plant material requires homogenization with liquid nitrogen so that it is powdered and can be mixed with lysis buffer. The same amount of fresh leaves, buds and pulp may be transferred directly into Solution A and homogenized using a mortar and a pestle.

1. Transfer 50 mg of homogenized material into a microfuge tube.
2. Apply 500 µl of Solution A and vortex thoroughly.
3. Incubate for 60 min at 65˚C, vortexing periodically.
4. Cool down to room temperature (RT), centrifuge at 10-14 000 x g for 5 minutes.
5. Transfer the clean supernatant into a new microfuge tube.
6. Add 2 µl of RNAse A, incubate at RT for 30 minutes.
7. Add 1.5 volumes of Solution B, vortex thoroughly.
8. Pre-wash G-spin® column with 500 µl of Solution C, discard the flowthrough.
9. Transfer the lysate on to the column, centrifuge at 10-14 000 x g for 1 minute
10. Discard the flowthrough and wash the column twice with 500 µl of Solution D, discard the flowthrough.
11. Remove residual buffer by centrifuging at 10 - 14 000 x g for 2 min; discard the colletion tube.
12. Transfer the column onto a new collection tube
13. Apply 50 µl of Solution E to the center of the column
14. Place the sample on a heat block at 65° C and apply 50 µl of Solution D onto the column, Incubate for 2 min. take care to get the entire surface of the column hydrated.
15. Cool down the column to RT
16. Elute DNA by spinning down for 1 min at 10 -14 000 x g.

Eluted DNA is stable for 2 weeks at 4˚C; 6 months at -20˚C and one year at -80˚C

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