OxGEn molecular solutions®

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:	Pre Lysis Buffer, 50 ml
Solution B:	Lysis Buffer, 25 ml
Solution C:	Binding Buffer, 40 ml
Solution D:	Wash Buffer, 90 ml
Solution E:	Elution Buffer, 10 ml
Rnase A:	250 µl, 50 mg/ml
G-spin® columns:	50 pieces
Collection tubes:	50 pieces

QUALITY CONTROL STATEMENT

Passes quality control requirement:

Date, Signature:

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 buffer and homogenized using a mortar and a pestle.

1. Homogenize 50 mg of plant material in 1000 µl of Solution A;
2. Transfer lysate into 1.5 ml microfuge tube and centrifuge at 4 000 rpm for 60 seconds;
3. Discard Supernatant;
4. Disolve the pellet 500 µl Solution B and 5µl of RNase A, vortex/bead beating 1 min;
5. Incubate sample for 15 min at 65˚C, vortex periodically 5 min intervals;
6. Freeze the sample for 10 minutes at -20˚C;
7. Cool down to room temperature (RT), centrifuge at 13 000 rpm for 10 min;
8. Transfer 500 µl of supernatant in to a new microfuge tube, add 1:1.5 volumes of Solution C, vortex thoroughly;
9. Transfer the lysate onto a G-spin® column, centrifuge at 13 000 rpm for 1 min. Repeat step 8 with remaining lysate until the entire lysate has passed through the G-spin® column. *Discard the fowthrough*;
10. Wash the column three times with 600 µl of Solution D. *Discard the fowthrough each time*;
11. Remove residual buffer by centrifuging at 13 000 rpm for 1 min. *Discard collection tube*;
12. Transfer the column onto a new 1.5 ml microfuge tube;
13. Add 50 µl of Solution E on the column, incubate for 3 min at RT. Take care to get the entire surface of the column hydrated;
14. Elute DNA by spinning down at 13 000 rpm for 1 min. DNA is stable for 2 weeks at 4°C; 6 month at -20°C and one year at -80°C.

DISCLAIMER

This kit is designed for research purposes only. It is not intended for human or diagnostic use. Ensure that a suitable lab coat, disposable gloves and protective glasses are worn when working with chemicals.

TECHNICHAL SUPPORT

Contact our Technical Support Team between 9.00 -17.00 UTC Time at +995 599 374 374.
Technical Support can also be obtained from our website or through emails at info@oxgen.ge