OxGEn molecular solutions®

SOFT TISSUE DNA PURIFICATION (*Column Based*)

DATA SHEET

Cat. No:	GE-006
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, 12 ml
Solution B:	Binding Buffer, 20 ml
Solution C 1:	Wash Buffer, 35 ml
Solution C 2:	Wash Buffer, 35 ml
Solution D:	Elution Buffer, 10 ml
RNase A:	200 µl, 12.5 mg/ml
Proteinase K:	1000 µl, 20 mg/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: It is recomended to use 25-30 mg of tissue sample for extraction. The lysis process can be improved by cutting samples into small pieces on ice or coolpack. The low time of Proteinase K treatment can be achieved by using bead beating machine during lysis step.

1. Cut up to 25-30 mg tissue (up to 10 mg spleen or liver) into small pieces and place in 1.5 ml microfuge tube and add 180 µl Solution A;
2. Add 20 µl Proteinase K, mix gently by bead beating machine / vortexing for 2 min;
3. Incubate for 2-24 hour at 56˚C, vortex periodically in 30 min intervals;
4. Cool down to Room Tempreture (RT);
5. Optional: If RNA-free genomic DNA is required, add RNase 4 µl (12.5 mg/ml), mix by vortexing and incubate for 2 min at RT;
6. Add 200 µl of Solution B and vortex throughly;
7. Incubate for 15 min at 56˚C;
8. Cool down to RT, centrifuge 13 000 rpm for 2 min;
9. Transfer the clean supernatant into a new 1.5 ml microfuge tube add 200 µl cold Ethanol 96-100% and mix. (*Ethanol has to be supplied by user*);
10. Pipet all mixture onto the G-spin® column, centrifuge at 8 000 rpm for 1 min. *Discard the flow-thorugh;*
11. Add 600 µl Solution C1, and centrifuge at 8 000 rpm for 1 min. *Discard the flow-though;*
12. Add 600 µl Solution C2, and centrifuge at 13 000 rpm for 3 min. *Discard the flow-though;*
13. Transfer the column onto a new 1.5 ml microfuge tube;
14. Leave the G-spin® column open at RT for 1 min, for evaporation of Ethanol;
15. Add 50 µl of Solution D on the column, incubate for 3 min at RT. Take care to get the entire surface of the column hydrated.
16. Elute DNA by spinning down at 8 000 rpm for 2 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