PHAGE DNA PURIFICATION (*Column Based*)

DATA SHEET

Cat. No:	GE-007
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, 15 ml
Solution B:	Lysis Buffer, 10 ml
Solution C:	Binding Buffer, 30 ml
Solution D:	Wash Buffer, 65 ml
Solution E:	Elution Buffer, 10 ml
RNase A:	500 µl, 50 mg/ml
DNase I:	500 µl, 20 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:

OxGEn molecular solutions®

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PROCEDURE

NOTE: The starting material for extraction is a phage lysate (> 1x 109 PFU/ml), prepared from liquid culture. Depending of the culture growth, this is is equivalent to 0.5 -1.0 ml of phage lysate.

1. Transfer 1000 µl of the phage lysate into a 2 ml microfuge tube, add 10 µl of DNase I, 10 µl RNase A and incubate for 20 min at 37°C.;
2. Incubate for 15 min at 80°C, vortex periodically in 5 min intervals;
3. Cool down the sample to Room Tempreture (RT);
4. Centrifuge for 5 min at 13 000 rpm, transfer lysate to new 2 ml microfuge tube;
5. Apply to the lysate 300 µl of Solution A and 200 µl of Solution B;
6. Add 20 µl of Proteinase K and vortex briefly;
7. Incubate for 50 min at 65°C, vortex periodically in 15 min intervals;
8. Freeze the samples for 15 min at -20°C;
9. To pellet cells, centrifuge at 13 000 rpm for 5 min. *Discard the supernatant*;
10. Add 600 µl Solution C and mix by inverting 30 times;
11. Transfer the 700 µl lysate onto a G-spin® column, centrifuge at 13 000 rpm for 1 min. *Repeat step 11 with remaining lysate until the entire lysate has passed through the G-spin® column. Discard the fowthrough each time*;
12. Wash the column two times with 600 µl of Solution D. centrifuge at 13 000 rpm for 1 min. *Discard the fowthrough each time*;
13. Remove residual buffer by centrifuging at 13 000 rpm for 1 min. *Discard collection tube*;
14. Transfer the column onto a new 1.5 ml microfuge tube;
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. Cool down the column to Room Tempreture (RT);
17. 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