



Xploregen Discoveries Pvt. Ltd.

## SAMPLE SIZE

1. Plant seed- 0.1 to 0.25g

## IMPORTANT NOTES

1. Wear gloves and lab coat when handling the buffers
2. Add the required volume of ethanol (96-100%) to **XPLS 4** before use.
3. Vortex the beaded vial for 2-3 sec
4. Perform all the centrifugation steps at room temperature.
5. Gently shake the reagents before using.

## EQUIPMENTS

1. VORTEX
2. CENTRIFUGE
3. MORTAR AND PESTLE

## KIT CONTENTS (50/100/250)

1. XPLS-50ml/100ml/250ml
2. XPLS1-70ml/140ml/350ml
3. XPLS2-10ml/20ml/50ml
4. XPLS3-30ml/60ml/150ml
5. XPLS4-30ml/55ml/130ml
6. XPLS5-3ml/6ml/15ml

## PLANT SEED DNA EXTRACTION PROTOCOL

1. Add 1 ml **XPLS** in to the sample and crush it with mortar and pestle.
2. Transfer the solution from mortar to sterile 2 ml vial and centrifuge the tube at 10,000 rpm for 10 minutes at room temperature (RT) and discard the supernatant carefully.
3. Repeat the above (1 to 2) steps.
4. Add 1400 µl of **XPLS 1** and resuspend the pellet completely by pipette mixing.
5. Add the complete amount of resuspended solution to the beaded vial.
6. Horizontal vortex the vial at maximum speed for 15 minutes.
7. Centrifuge the tube at 10,000 rpm for 2 minutes at room temperature (RT)
8. Transfer 700 µl of supernatant to a sterile 2 ml vial.
9. Add 200 µl of **XPLS 2** solution and vortex for 5 seconds
10. Centrifuge at 10,000 rpm for 2 minutes.
11. Transfer 750 µl Supernatant to a clean sterile 2ml vial.
12. Add 600 µl of **XPLS 3** solution to the supernatant and vortex for 5 seconds.
13. Transfer 700 µl of Lysate to the spin column (Do not discard the residual lysate) and Centrifuge at 10,000 rpm for 2 minutes.
14. Discard the flow through.
15. Repeat the above (10&11) steps to collect all the Lysate. (Ensure the entire lysate is processed via the spin column)
16. Add 500 µl of **XPLS 4** to the spin column and Centrifuge at 10,000 rpm for 2 minutes.
17. Discard the flow through.
18. Centrifuge the empty spin column for 5 minutes at 10,000 rpm.
19. Place the spin column into a sterile 1.5 ml vial.
20. Add 30 µl of **XPLS 5** (Elution 1) to the center area of spin column and centrifuge for 5 minutes at 10,000 rpm.
21. Place the spin column to a new sterile 1.5ml vial.
22. Add 25 ul of **XPLS 5** (Elution 2) to the center area of spin column and centrifuge for 5 minutes at 10,000 rpm.
23. Discard the spin column and store both elution tubes for further processing.

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