

CatchGene[®] Plant RNA Kit

Cat. No.

MR30004

MR30050

MR0250

Rxn

4

50

250

Kit Content

	4rxn	50rxn	250rxn	
Spin Columns (with 2ml Tube)	4	50	250	pcs
Collection Tubes (2 ml)	8	100	500	pcs
Buffer RPL	2.4	30	150	ml
Buffer RB	0.5	6.3	31.5	ml
Buffer RW1 (concentrated)	3.36	42	105x2	ml
Buffer RW2 (concentrated)	0.68	8.4	42	ml
RNase-Free H ₂ O	0.96	12	60	ml

Kit Preparation

Prepare Buffer RB
 Add 2.4 volume of 100% EtOH into Buffer RB and vortex thoroughly.
 After adding 100% EtOH, please tick the sticker on the bottle and close the cap tightly.

Prepare Buffer RW1
 Add equal volume of 100% EtOH into Buffer RW1 (concentrated) to get Buffer RW1.
 After adding 100% EtOH, please check the sticker on the bottle and close the cap tightly.

Prepare Buffer RW2

Add 4 volume of 100% EtOH into Buffer RW2 (concentrated) to get Buffer RW2. After adding 100% EtOH, please check the sticker on the bottle and close the cap tightly.

General Protocol

- 1. Cut off 50 mg (up to 100 mg) of fresh or frozen plant tissue.
- 2. Grind tissue sample thoroughly with liquid nitrogen by beads beater*, tissue homogenizer or mortar & pestle. Transfer it into a liquid nitrogen pre-chilled micro-centrifuge tube.
 - *For grinding samples with beads beater. Please cut off 50 mg (up to 100 mg) of fresh or frozen plant tissue into 2ml microcentrifuge tube. Add proper number (1-3) and proper dimension (3-7 mm) of stainless beads into the sample tube. Immerse tube(s) into liquid nitrogen for at least 2 mins before homogenizing. Homogenize for 30 sec at 30Hz (Do not let the tissue to thaw). Immerse sample tubes into liquid nitrogen and homogenize again, if there is still any large pieces.
- 3. Add 450 μl of RPL Buffer (add 1%β-ME freshly) and vortex vigorously to lysis the sample. Incubate at room temperature for 5 min.
- 4. Centrifuge at 11,000 x g for 2 min to spin down insoluble material and transfer 350 μl the clear supernatant to the 2ml Sample Tube.
 - *Avoid transferring any debris into the 2ml Sample Tube. Fill up with RATL Buffer if the clear supernatant is less than 350 µl.
 - Add 350 μl Buffer RB, vortex for 30 sec then briefly spin down.
- 6. Transfer all mixture to Spin Column (with 2ml Tube).
- 7. Centrifuge at 11,000 x g for 1 min, and change a new collection tube.
- 8. Add 700 μl Buffer RW1 into spin column, centrifuge at 11,000 x g for 1 min, discard the flow-through.
- 9. Repeat step 8 once.

5.

- 10. Add 700 µl Buffer RW2 into spin column, centrifuge at 11,000 x g for 1 min.
- 11. Change a new collection tube, centrifuge at 11,000 x g for 3 min.
- 12. Place the spin column into 1.5 ml micro-centrifuge tube, add 30-100 μl RNase-Free H₂O and incubate at 25°C (room temperature) for 2 min.
- 13. Centrifuge at 11,000 x g for 1 min for elution.