

## **Product Application**

## **Total RNA isolation from various Plant samples**

Isolating high quality total RNA from Plat Leaf Tissues using Maxwell 16 LEV Plant RNA Kit

Kit:	Maxwell 16 LEV Plant RNA Kit (Cat. #AS1430)			
Analyses:	RT-qPCR			
Sample Type(s):	Young Plant Leaves			
Input:	Leaf tissue from 40 to 100mg			
Materials Required:	<ul> <li>Beads-Beating Device</li> </ul>			

Centrifuge

## Protocol:

- 1. Add 600ul of chilled 1-Thioglycerol/Homogenization Solution to each sample tube.
- 2. Using the bead-beating device, homogenize samples for desired time.
- 3. Centrifuge samples at max speed for 5 minutes.
- 4. Transfer the 400µL of lysate to new tube.
- 5. Add 200µL of Lysis Buffer. Mix vigorously by vortex for 15 seconds.
- 6. Transfer the entire volume to well #1 of the Maxwell 16 Cartridge.
- 7. Add 5µL of reconstituted DNase I into well #4.
- 8. Place the Elution Tube into the Cartridge Rack and add 50μL of Nuclease-Free Water for each sample.
- 9. Place the LEV Plunger in the indicated position of the cartridge.
- 10. Select method: RUN, RNA, Plant, Start, Run

## **Results:**

Plant	Туре	Weight	Conc. (ng/µL)	A260/280	A260/230	Application
Tomato	Leaf	100mg	133.8	2.16	2.15	RT-qPCR
Chinese cabbage [白菜]	Leaf	100mg	104.2	2.16	2.22	RT-qPCR
Komatuna [小松菜]	Leaf	100mg	995.2	2.14	2.38	RT-qPCR
Strawberry	Leaf	40mg	178.4	2.10	2.16	RT-qPCR
Arabidopsis	Leaf	100mg	870.9	2.14	2.14	RT-qPCR