Product Application



High purity RNA isolation from strawberry flesh

Kit: Maxwell® 16 LEV Plant RNA Kit (Cat.# AS1430)

Analyses: NanoDrop 2000

Sample Type(s): strawberry flesh (Toyonoka made in Tochigi)

Input: 50-100mg

Optimized protocol using Fruit-Mate in preprocessing steps

- 1. Grind fresh or frozen strawberry flesh in liquid nitrogen to a powder using mortar and pestle.
- 2. Transfer the powder to 1.5ml tube, add 1ml of Fruit-Mate (Takara Bio) 1ml and mix well by vortex.
- 3. Centrifuge at 14,000rpm for 5 minutes at 4°C.
- 4. Transfer 400-600ul of the supernatant to a new 1.5ml tube.
- 5. Add 200-400ul of Lysis Buffer and vortex for over 15 seconds.
- 6. Add the lysate prepared in step 5 into the well #1 of the cartridge. Elution volume is 50ul.

Standard protocol following Maxwell 16 LEV Plant RNA Kit

- 1. Grind fresh or frozen strawberry flesh in liquid nitrogen to a **powder** using mortar and pestle.
- Transfer the powder to 1.5ml tube, add 600ul of pre-chilled
 1-Thioglycerol/Homogenization Buffer and mix well by vortex.
- 3. Centrifuge at 14,000rpm for 5 minutes at 4°C.
- 4. Transfer 400 of the supernatant to a new 1.5ml tube.
- 5. Add 200ul of Lysis Buffer and vortex for over 15 seconds.
- 6. Add the lysate prepared in step 5 into the well #1 of the cartridge. Elution volume is 50ul.

Results

Protocol	Sample Volume	Conc.	260/280	260/230
Optimized protocol by	40mg	61.50	2.05	2.00
Fruit-Mate	60mg	73.60	2.05	1.96
Standard protocol	33mg	27.20	1.86	1.29
	66mg	30.60	1.90	1.42

Spectra graph





Optimized protocol by Fruit-Mate

Standard Protocol