

A rapid method for isolation of low-molecular-weight RNA from *Arabidopsis* using low salt concentration buffer

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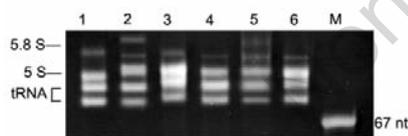
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Supplementary Table 1. The yield and quality checking of the extracted LMW RNA from different *Arabidopsis* tissues. Spectrophotometric analysis was carried out for quantification by reading A260 value, and quality checking by calculating the A_{260}/A_{280} and A_{260}/A_{230} ratio.

Tissue	Yield g/gFW	A_{260}/A_{280}	A_{260}/A_{230}
Leaf	52.67±2.84	1.88±0.11	2.05±0.10
Root	49.15±5.83	1.70±0.18	1.87±0.11
Stem	45.35±5.32	1.78±0.10	1.99±0.09
Inflorescence	57.39±6.36	1.80±0.15	1.92±0.13

Supplementary Table 2. The yield and quality checking of the extracted LMW RNA from different plant species. Spectrophotometric analysis was carried out for quantification by reading A260 value, and quality checking by calculating the A_{260}/A_{280} and A_{260}/A_{230} ratio.

Plant	Yield $\mu\text{g/gFW}$	A_{260}/A_{280}	A_{260}/A_{230}
Cassava	50.80±3.24	1.75±0.05	2.15±0.15
<i>Arabidopsis</i>	48.58±5.24	1.82±0.1	2.09±0.11
Sweet potato	49.56±6.56	1.88±0.12	1.98±0.09
Papaya	68.54±6.88	1.71±0.09	2.13±0.12
<i>StyloSantnes</i>	69.28±9.86	1.66±0.07	1.89±0.13
Rubber tree	47.52±2.68	1.75±0.08	1.89±0.13



Supplementary Figure 1. Low-molecular-weight (LMW) RNA (3 g) samples from different plant tissues were run on urea (8%) 15% polyacrylamide gel electrophoresis gels (20 volts/cm, 2 hours), and stained with ethidium bromide (EB): Lane 1, cassava; Lane 2, *Arabidopsis*; Lane 3, sweet potato; Lane 4, papaya; Lane 5, *StyloSantnes guianensis*; Lane 6, rubber tree; M, 67-nt DNA molecular marker.

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Key words: low-molecular-weight RNA, low salt concentration buffer, *arabidopsis*.

Contributions: HC, experimental design, sample collection, RNA extraction, Northern blotting; JG, RNA extraction; ZA, RNA PAGE; HH, experiment instruction, manuscript preparation.

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