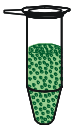
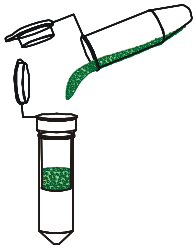
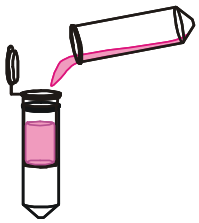
analytikjena
An Endress+Hauser Company

innuSPEED Plant RNA Kit

Protocol: RNA isolation from plant material

Recommended steps before starting

- Prepare Washing Solution HS and Washing Solution LS according to the instruction

1. Starting material	Plant material		▪ Up to 50 mg
2. Homogenization			▪ Cut plant material (small pieces) ▪ Add cut material to Lysis Tube P ▪ Add 100 µl RL or PL ▪ Add Lysis Tubes P to SpeedMill ▪ Homogenization time: 1 – 3 min
3. Lysis			▪ Add 350 µl RL or PL ▪ Incubation: 10 min @ RT ▪ Continuos shaking ▪ Centrifuge: max. speed, 1 min
4. Selective removing of gDNA			▪ Spin Filter D to Receiver Tube ▪ Add supernatant to Spin Filter D ▪ 10,000 x g (~12,000 rpm): 2 min ▪ Discard Spin Filter D ▪ Add equal volume 70 % ethanol (approx. 400 µl) to filtrate
5. Selective binding of RNA New Receiver Tube			▪ Spin Filter R to Receiver Tube ▪ Add sample to Spin Filter R ▪ 10,000 x g (~12,000 rpm): 2 min

6. Washing

New Receiver Tubes

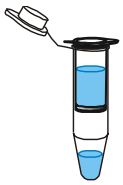
- Add 500 µl HS
- 10,000 x g (~12,000 rpm): 1 min
- Add 650 µl LS
- 10,000 x g (~12,000 rpm): 1 min
- Add 650 µl LS
- 10,000 x g (~12,000 rpm): 1 min

7. Remove Ethanol

New Receiver Tube

- Discard filtrate
- Add Spin Filter to Receiver Tube
- Centrifuge: max speed, 2 min

8. Elution



- Add Spin Filter R to an Elution Tube
- Add 30–80 µl RNase-free Water
- Incubation: 1 min @ RT
- 6,000 x g (~8,000 rpm): 1 min

Order No.:	845-KS-2560010	10 reactions
	845-KS-2560050	50 reactions
	845-KS-2560250	250 reactions

This documentation describes the state at the time of publishing. It needs not necessarily agree with future versions. Subject to change!

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