analytikjena
An Endress+Hauser Company

innuPREP Plant DNA Kit

Protocol 2: gDNA isolation from plant material using Lysis Solution OPT

Recommended steps before starting

- Heat thermal mixer or water bath (65 °C)
- Prepare Washing Solution MS and Proteinase K according to the instruction

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1. Starting material

- Plant material — 50–100 mg
- Wet plant material — 120–180 mg

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2. Homogenization

- Homogenizer — SpeedMill (innuSPEED Plant DNA Kit)

- Pestle — Liquid N_2
- Grinding — Sand

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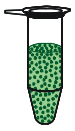
3. Lysis



- Add 400 µl OPT
- Vortex: 5 sec
- Incubation: 65 °C, 30 min

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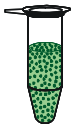
4. Precipitation



- Add 100 µl Precipitation Buffer P
- Vortex: 5 sec
- Incubation: 5 min @ RT
- Centrifuge: max speed, 5 min

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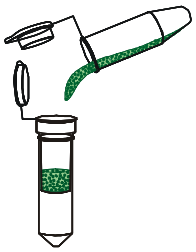
5. Pre-filtration



- Add Prefilter to a Receiver Tube
- Add supernatant to Prefilter
- 11,000 x g (~11,000 rpm): 1 min

NOTE
Don't discard the Receiver Tube with the filtrate!

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6. Optional: RNA removal

- 100 mg/ml RNase A; vortex
- Incubation: 5 min @ RT

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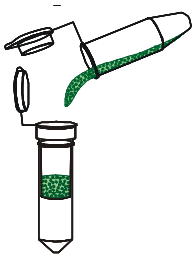
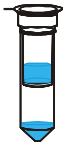
7. Binding of DNA
New Receiver Tube



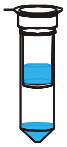
- 200 µl SBS to the filtrate
- Mix: pipetting up and down
- Add Spin Filter to Receiver Tube
- Add sample to Spin Filter
- 11,000 x g (~11,000 rpm): 2 min

8. Washing
New Receiver Tube



- Add 650 µl MS
- 11,000 x g (~11,000 rpm): 1 min
- Add 650 µl MS
- 11,000 x g (~11,000 rpm): 1 min

9. Remove Ethanol
New Receiver Tube



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

10. Elution

- Add Spin Filter to an Elution Tube
- Add 100–200 µl Elution Buffer
- Incubation: 1 min @ RT
- 11,000 x g (~11,000 rpm): 1 min

Order No.:	845-KS-1060010	10 reactions
	845-KS-1060050	50 reactions
	845-KS-1060250	250 reactions

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

Analytik Jena AG
Konrad-Zuse-Straße 1
07745 Jena · Germany

Phone +49 3641 77 9400
Fax +49 3641 77 76 7776
info@analytik-jena.com
www.analytik-jena.com

Manufacturer:
AJ Innuscreen GmbH
Robert-Rössle-Straße 10
13125 Berlin