

innuPREP RNA Mini Kit 2.0

Protocol 1: RNA extraction from tissue samples

Recommended steps before starting

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

1. Starting material Tissue

- Max. 20 mg

2. Homogenization and lysis

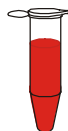
Homogenizer
e.g. SpeedMill



or

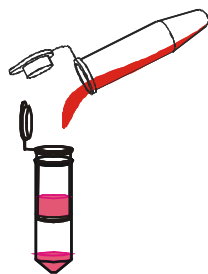
- See also: innuSPEED Tissue RNA Kit
 - Add frozen starting material to homogenizer tube
 - Add 450 µl RL and homogenize
 - Add sample to a 1.5 ml tube
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Liquid nitrogen



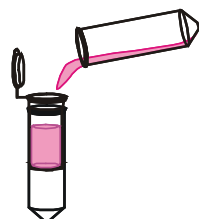
- Grind starting material to fine powder under liquid nitrogen
 - Add sample to a 1.5 ml tube
 - Add 450 µl RL and lyse sample under continuous shaking
 - Centrifuge: max. speed; 1 min
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3. Selective removing of gDNA



- Spin Filter D to Receiver Tube
 - Add supernatant to Spin Filter D
 - 11,000 x g (~11,000 rpm): 2 min
 - Discard Spin Filter D
 - Add equal volume 70 % ethanol (approx. 400 µl) to filtrate
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4. Selective binding of RNA
New Receiver Tube



- Spin Filter R to Receiver Tube
 - Add sample to Spin Filter R
 - 11,000 x g (~11,000 rpm): 2 min
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5. Washing

New Receiver Tube



- Add 500 µl HS
- 11,000 x g (~11,000 rpm): 1 min
- Add 700 µl LS
- 11,000 x g (~11,000 rpm): 1 min

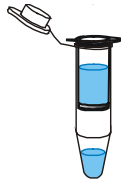
6. Remove Ethanol

New Receiver Tube



- Discard filtrate
- Spin Filter R to Receiver Tube
- 11,000 x g (~11,000 rpm): 2 min

7. Elution



- Spin Filter R to an Elution Tube
- Add 30–80 µl RNase-free water
- Incubation: 1 min @ RT
- 11,000 x g (~11,000 rpm): 1 min

| | | |
|-------------------|----------------|---------------|
| Order No.: | 845-KS-2040010 | 10 reactions |
| | 845-KS-2040050 | 50 reactions |
| | 845-KS-2040250 | 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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