



S300

Store at room temp

Safety information

Slightly hazardous (irritant, sensitizer) in case of skin and/or eye contact, always wear gloves and safety glasses.

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Description:

RNA^{Sound}™ Blood RNA Card unprecedentedly stabilizes RNA of biological samples on filter paper by the proprietary impregnating lysis buffer.

Targeted biological samples include those that are extremely inhibitory and can not be handled by our standard Sampling Card:

- Whole blood, milk, urine, semen, sputum, leave squeezes, tissue homogenates, dirt, and feces

The card features:

- Immediate inactivation and thus safe handling of blood samples;
- Room temperature blood RNA sample collection, storage and transportation.

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Kit contents

item	description	quantity
RNA ^{Sound} ™ Blood RNA Cards	Individually packaged in zip bag with desiccant	25
1.5mL eppendorf tubes	For RNA recovery	25

Protocol

1. Sample treatment

- 1) Fluid sample can be applied on card directly;
- 2) Feces or dirt: Add 0.5 g sample to 1 mL PBS and vortex for 3 min; centrifuge at 100 x g for 1 min and apply supernatant to the card.

2. Sample application on card

- 1) Apply up to 200 µL of sample to the marked sample area;
- 2) Dry the card on portable Card Drying Station (Cat. # U100) for 30 minutes, or dry in the air for 2 hours;
- 3) Return the card to its original zip bag with desiccant.
 - RNA are stable at room temp for at least one week;
 - If accessible, store cards at 4 °C or lower for longer storage.

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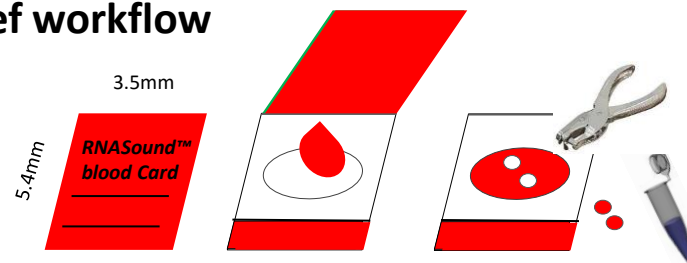
3. Paper disc extraction

- 1) Take the card out from the zip bag;
- 2) Further dry the card on Card Drying Station for 15 minutes, or dry in the air for 1 hour;
- 3) Using a paper puncher to punch out, or a pair of scissors to cut out, the whole sample area in small pieces, and collect in a 1.5mL tube;
 - Punch or cut on a plain filter paper three times to reduce the carry-over from previous samples.

4. RNA recovery

- 1) submerge the paper pieces with standard volume of Trizol, or phenol:chloroform, or lysis buffer from RNA purification kits;
- 2) Shake on a shaker at the maximal speed for 30 minutes, or vortex tubes at top speed for 5 minutes..
- 3) Transfer the elute to a new eppendorf tube;
- 3) Follow the protocol of selected RNA purification method to purify RNA.

Brief workflow



- Apply up to 200 µL of sample in circle;
- Dry the card on portable Card Drying Station (Cat. # U100) for 30 minutes; or in air for 2 hours

- RNA are stable at room temp for a week;
- Punch or cut out the whole sample area for RNA elution

Add ~350 µL of RNA kit lysis buffer, shake for 30 minutes to elute RNA, follow the protocol of selected RNA purification method to purify RNA.

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