RNA*Sound*™ RNA Sampling Card

ReadyPunched™

Bio Fortius

Robust Nucleic Acids

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S200R

Keep refrigerated

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

Description:

RNA*Sound*™ RNA Sampling Card unprecedentedly stabilizes RNA on filter paper with the proprietary impregnating lysis buffer. It features:

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

ReadyPunched™ format (Patent pending) eliminates the tedious card punching and the risk of cross contamination.

Kit contents

item	description	quantity
RNA*Sound*™ ReadyPunched™ RNA Sampling Cards	Individually packaged in zip bag with desiccant	25

Protocol

1. Sample preparation

1) Fluid sample (blood, serum, saliva, culture supernatant) can be applied directly on card;

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.

3) Cells or bacteria cultures:
   - ➢ (For adherent cells) Detach cells and inactivate trypsin;
   - ➢ Cells pelleted down;
   - ➢ Cells washed with 1XPBS;
   - ➢ Cells resuspended in 1XPBS

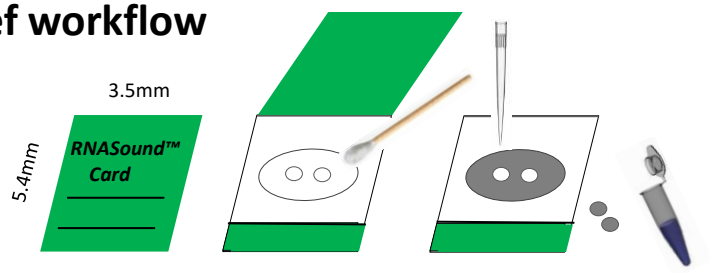
2. Sample application on card

1) Directly drop sample on the perforated discs on the card;
   - ➢ The two perforated discs on each card are for a same sample.
2) Or, collect sample on a swab, and press and roll the contents of the swab onto the perforated discs on the card;
   - ➢ The stability of sample RNA is not guaranteed outside the two perforated discs.
3) Dry the card on a portable Card Drying station (Cat. # U100) for about 10 minutes or at room temperature for about an hour.
4) 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.

3. RNA elution

1) Take the card out of the zip bag;
2) Further dry the card if necessary on portable Card Drying station (Cat. # U100), or in air for an hour;
3) Push out the two perforated discs into a 1.5 mL eppendorf tube using a sterile pipette tip;
   - ➢ If the disc hangs on the card, push the disc against the tube wall, and pull the card to detach the disc.
4) submerge the paper pieces with standard volume of Trizol, or phenol:chloroform, or lysis buffer from RNA purification kits;
5) Hand hold the tube and vortex at top speed for 5 minutes, or shake multiple tubes in an Eppendorf Thermomixer at top speed and 60C for 2 min.
6) Transfer the elute to a new eppendorf tube;
7) Follow the protocol of selected RNA purification method to purify RNA.
6) Use elute for immediate RT-PCR or store at -20C for future use.

Brief workflow



- Squeeze and roll the cotton tip on perforated discs;
- Dry the card on portable Card Drying station (Cat. # U100) for 10 minutes; or in air for 1 hour
- RNA are stable for one week;
- Push out discs to a 1.5 mL eppendorf tube

Add ~350 mL of RNA kit lysis buffer, vortex for 5 minutes to elute RNA, follow the protocol of selected RNA purification method to purify RNA.