



## S200R

Keep cards refrigerated;  
Limit inevitable out of refrigerator exposure < 3 weeks;  
Keep other kit components 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*™ RNA Sampling Card unprecedentedly stabilizes RNA on filter paper by the proprietary impregnating lysis buffer. It features:

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

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

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## Kit contents

item	description	quantity
RNA <i>Sound</i> ™ ReadyPunched™ RNA Sampling Cards	Individually packaged in a dual segmented zip bag with desiccant	25
Polyester swabs	For sample application	30

## Protocol

### 1. Sample preparation

- 1) Serum, saliva, nasal fluids, environmental water samples
  - Applied directly

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- 2) 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 one card are designed to take more volume of the same sample.
  - 2) Or, collect sample on a cotton 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.

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- 4) Return the card to its original dual segmented 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.

### 2. 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;
  - Cards need to be thoroughly dry to avoid inhibitors to be eluted off with RNA;
- 3) Push out the 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.

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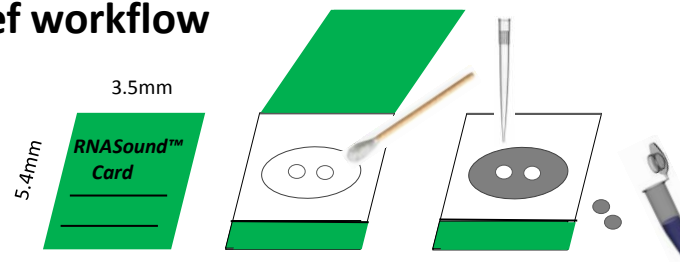
- 4) Add 100 µL of RNA elution solution to each tube;
  - Using of preheated RNA elution solution of ~75° C can increase the RNA elution.
- 5) Vortex for 5 minutes or pipette up and down for 50 times;
  - To process large number of cards, push the discs into 96-well-plate wells (not provided), add 100 µL of RNA elution solution to each well, and shake on a plate shaker at the maximal non-splashing speed (pre-test with 100 µL of color fluid to make sure no splash into neighboring blank wells) for 10 minutes, or pipette up and down for 50 times to elute RNA;
- 6) Use elute for immediate RT-PCR.

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### 3. (Optional) DNA Recovery

- 1) After RNA elution is removed, sample DNA can be eluted by adding 100 µL of water and heating up to 95 °C for 30 min;
- 2) The elution are vortexed and spun down at top speed for 30 seconds;

## 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 100 µL RNA elution solution, vortex for 5 min to elute RNA

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