

# RNASound™ Blood RNA Card

**Catalog no.: S300**

Cards expire:

- in one year in refrigerate;
  - in three months at room temperature
- other components store at room temp

## Overview

Applying blood onto dry filter paper (dried spot), or lysis buffer impregnated filter paper (FTA® card) has proven to be useful and convenient in DNA sample storage and transportation. RNA sample stabilization, however, requires much harsher enzymatic inhibitors, neither dried spot or FAT® card has been able to provide satisfied RNA sampling solution .

RNASound™ Blood RNA Card unprecedentedly demonstrate the ability of stabilizing RNA on filter paper by the proprietary lysis buffer. It enables:

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

## Kit contents

item	description	quantity
RNASound™ Blood RNA Cards	Individually packaged in dual segmented zip bag with desiccant	25
1.5mL eppendorf tubes	for final RNA elution	50

## Protocol

### 1. Sample application on card

- Apply up to 200 µL of blood, serum, sample squeezes, or sample homogenates to marked sample area;
  - Large volume may require longer drying time, avoid unnecessary loading volume.
- Dry card at room temperature for about 2 hours, or at 37 °C in an incubator or on a dry heating block for about 30 min or until totally dry, holes in heating block don't affect results.
  - (optional) Repeat the sample application-drying cycles to increase the sample loading volume and the final eluted RNA concentration.

### 2. Sample storage

- Return card to its individual plastic zip bag with desiccant, and keep the bag in foil zip bag. RNA are stable at room temperature for at least one week.
  - If accessible, store cards at 4 °C or lower for longer term storage.

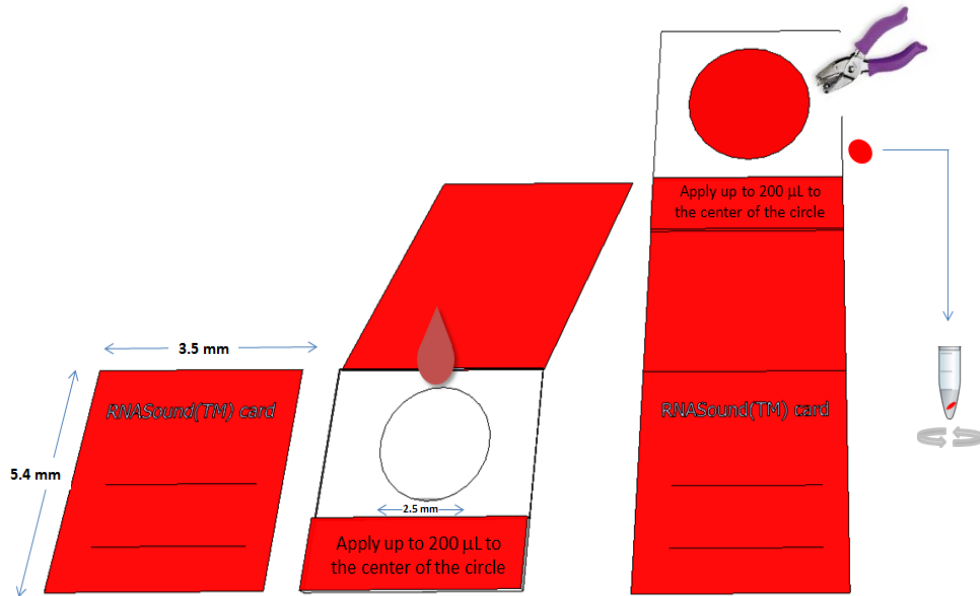
### 3. Paper disc extraction

- From ReadyPunched™ card, push out the ready punched 5 mm disc to an eppendorf tube using a pipette tip;
- From standard card, using a paper puncher to punch out or a pair of scissors to cut out the whole sample area;
  - Punch or cut on a plain filter paper three times to reduce the carry-over from previous samples.

### 4. RNA elution

- Immerse the paper pieces with lysis buffer from RNA kits, or Trizol, or phenol:chloroform with the standard volume used for a sample;
- Shake in a thermomixer at 37 °C 1000 rpm for 30 minutes;
  - If thermomixer is not available, shaker on a plate shaker at medium speed for 30 minutes.
  - If no shaker is available, vortex tubes with paper pieces at medium speed for 1 minute.
- Transfer the elute to a new eppendorf tube;
- Follow through the rest of the respective protocol to purify RNA.

## Brief workflow



- Apply sample in circle, let card dry.
  - RNA are stable at room temp for over a week.
  - Punch or cut out the whole area for RNA elution
- Add ~350  $\mu$ L of RNA kit lysis buffer, shake for 30 minutes to elute RNA

## Related Products

Product	Catalogue no.
RNA Sampling Cards	S200
RNA Sampling Cotton Tips	S400
RNA Extraction Cards	E100
Food Pathogen DNA Extraction Cards	E200
RNA Extraction Strip Plate	E300
RNA Extraction Spin Columns	E400

## Safety information

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

**Fortius** <sup>Bio</sup> Rapid Nucleic Acids



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