



E100-8

Store at room temp

Safety information

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

Description:

RNA*Sound*[™] RNA Extraction Strip Card features filter paper discs that are impregnated with proprietary lysis buffer. The discs are assembled between two transparent films and spaced out to align with one row of 96 well plate. The discs lyse cells and release RNA; discs are easily translocated to plate wells with sterile pipette tips; RNA are then easily recovered with a brief elution. The 12 cards in the kit all together can extract up to 96 RNA in about 30 minutes with minimal hands-on effort, no organic solvent, no centrifugation. Most of the RT-PCR inhibitors from samples are trapped in filter paper.

Kit contents

item	description	quantity
RNA <i>Sound</i> [™] RNA Extraction Strip Card	12 X 8 sample strips	1
96 well strip plate	For RNA elution	1
RNA elution solution	For RNA elution	10 mL

Protocol

1. Sample preparation

- 1) Saliva, nasal fluids, environmental water samples
 - Applied directly
- 2) Cells or bacteria cultures:
 - (For adherent cells) Detach cells and inactivate trypsin;
 - Cells pelleted down;
 - Cells washed with 1XPBS;
 - Cells resuspended in 1XPBS

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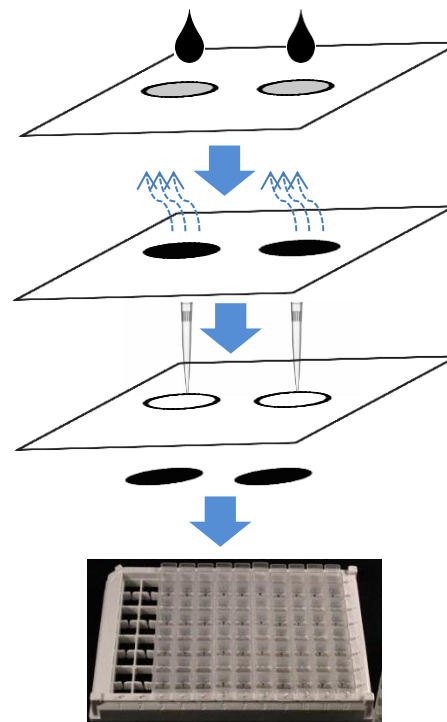
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2. Sample application on card

- 1) Apply up to 10 μ L of sample to each filter paper disc on the card;
- 2) Partially fold back the absorption pad along the perforated line to fully expose the discs in air;
- 3) Dry card in a 37C incubator for 15 min;
 - (optional) Repeat the sample application-drying cycle up to total three times to increase the sample loading volume and the final RNA elution concentration.

3. RNA Elution

- 1) Align the filter paper discs over one row of a 96 well plate;
- 2) Push out the discs into underneath plate wells using sterile pipette tips;
- 3) Add 100 μ L of provided RNA elution solution to each well;
 - Warm the RNA elution solution to \sim 75 $^{\circ}$ C can increase the RNA elution.
- 4) Shake on a plate shaker at the maximal non-splashing speed (pre-test with 100 μ L 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;
- 5) Use elute for immediate RT-PCR.



Brief workflow

- Load up to 10 μ L of sample on each disc
- Partially fold back the absorption pad along the perforated line to fully expose the discs in air;
- Dry card in a 37C incubator for 15 min;
- Align the filter paper discs over one row of a 96 well plate;
- Add 100 μ L RNA elution solution, shake on a plate shaker at the maximal non-splashing speed for 10 minutes, or pipette up and down for 50 times to elute RNA

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