Lyse*Now*® Perforated Card

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Rapid Nucleic Acids

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L100R

Keep refrigerated

Perforated card design is the subject of a pending patent application

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

Description:

Lyse*Now*® perforated Cards are thick filter paper card that were treated with proprietary chemical formula. The card preserves DNA/RNA integrity at ambient temperature. Each card has seven perforated 3 mm discs for easy detach with pipette tips. Each card is labeled with individual bar code for easy logging and tracking.

Kit contents

item	description	quantity
Lyse*Now*® Perforated Card	Individually packaged in zip bag	25

Protocol

1. **Sample application on card**
   - Directly drop up to 100uL of fluid on the center of perforated area;
   - Or, collect sample on swab, press and roll swab onto the perforated discs;
2. **Dry the card** on a portable Card Drying station (Cat. # U100) for about 30 minutes or at ambient temperature for about two hours.
3. **Card storage**
   - Return the card to its original zip bag.
   - DNA are stable at ambient temperature for at least a year;
   - RNA are stable at ambient temperature for at least a week;
   - If accessible, store cards at 4 °C or -20 °C for longer storage.
4. **Disc translocation**
   - Push out seven discs into an eppendorf tube using a sterile pipette tip;

5. **RNA recovery**

1) Clean Sample RNA (oral/nasal fluid, serum, etc)

- Submerge seven discs in 100uL water*, vortex 3 times, each for 5 sec;
  - Use 100uL of 5% Chelex 100 for better RNA recovery
- Spin the tube at top speed for 1 min;
- Transfer the supernatant containing recovered RNA to a new eppendorf tube.

2) Tough Sample RNA (blood, feces, soil, etc)

- Submerge seven discs in 350uL Trizol, or phenol:chloroform, or lysis buffer from RNA purification kits;
- Vortex the tube at top speed for 5 minutes;
- Transfer the supernatant to a new eppendorf tube;
- Follow the protocol of selected RNA purification method to further purify RNA.

❖ **See back for continue**

6. **DNA recovery**

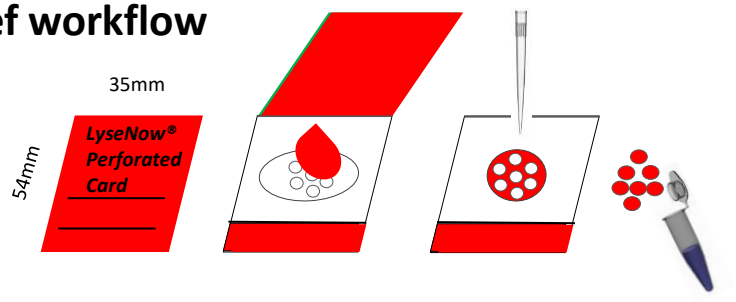
1) Clean Sample DNA (oral/nasal fluid, serum, etc)

- Submerge seven discs in 100uL water, heat to 95C for 30 min;
- Spin the tube at top speed for 1 min;
- Transfer the supernatant containing recovered DNA to a new eppendorf tube.

2) Tough Sample DNA (blood, feces, soil, etc)

- Submerge seven discs in 500uL water, vortex at top speed for 3x5 sec, discard supernatant;
- Add 100uL of nuclease free water;
- Heat the tube in a 95 °C heating block for 30 min;
- Vortex the tube at top speed for 5 sec;
- Spin the tube at top speed for 1 min;
- Transfer the supernatant containing recovered DNA to a new eppendorf tube.

Brief workflow



•Apply 100 µL of sample on the center of perforated area;
•Dry the card on portable Card Drying Station (Cat. # U100) for 30 minutes; or at ambient temperature for two hours

- Use the sterile pipette tip to translocate the perforated discs into a tube

Elute or further purify DNA/RNA