



**E500-8**

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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:

LyseNow® Plasmid DNA Extraction Card features filter paper discs that are impregnated with proprietary lysis buffer. The discs are assembled between two transparent sheets and spaced out to align with one row of 96 well plate. The discs lyse cells and release DNA; discs are easily translocated to plate wells with sterile pipette tips; DNA are then easily recovered with a brief elution. The 12 cards in the kit all together can extract up to 96 plasmid DNA for direct PCR screening or sequencing in about 30 minutes with minimal hands-on effort, no organic solvent, no PCR inhibitors.

## Kit contents

item	description	quantity
LyseNow® Plasmid DNA Extraction Card	8 sample Strips	12
96 well strip plate	For DNA elution	1
Card Elution Solution	For DNA elution	10 mL

## Protocol

### 1. Bacteria culture preparation

- **Colonies on culture plate**
  - Pick colonies from culture plate and transfer to 96-well-plate wells that filled with 50 µL appropriate culture media in each well, thoroughly resuspend the colony;
- **Bacteria culture in liquid media**
  - apply directly.

### 2. Sample application on card

- Apply up to 10 µL of bacteria culture preparation to each filter paper disc that embedded on the card;
- Partially fold back the absorption pad along the perforated line to fully expose the discs in air;
- Stand the card on a 95 °C dry heating block for 10 min;

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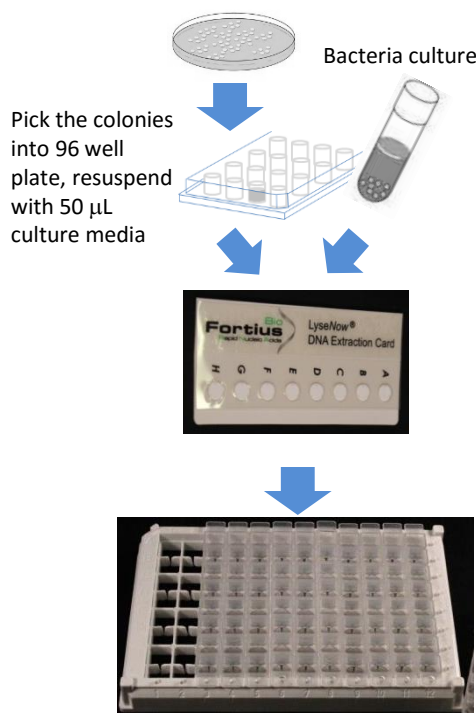
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### 3. DNA Elution

- 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 µL of provided Card Elution Solution to each well;
  - Vortex the Card Elution Solution tube to suspend the beads in solution;
  - Pipette up and down twice before each aspiration
- 4) Use pipette tips to submerge the disc in Card Elution Solution;
- 5) Seal the Plate;
- 6) Keep the plate on the 95 °C dry heating block for 10 min;
- 7) Vigorously vortex the plate for 1 min;
- 8) Spin the plate at top speed for 1 min;
- 9) Use supernatant for immediate PCR or transfer 50µL supernatant to a new plate and store at -20 °C for future use.
  - Avoid transfer the beads pellet at the well bottom

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## Brief workflow

1. Apply 10 µL of bacteria culture on a 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. Stand the card on a 95 °C dry heating block for 10 min;
4. Align the filter paper discs over one row of a 96 well plate;
5. Push discs into plate wells using sterile pipette tips;
6. Add 100 µL of provided Card Elution Solution to each well;
7. Seal the Plate;
8. Keep the plate on the 95 °C dry heating block for 10 min;
9. Vortex the plate for 1 min;
10. Spin the plate at top speed for 1 min;
11. Use elute for immediate PCR or sequencing.

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