



E500

Store 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:

LyseNow® Plasmid DNA Extraction Card features filter paper discs that are impregnated with proprietary lysis buffer. The discs are assembled between two transparent films in a 8 X 12 array that aligns with a 96 well format. 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 card extracts up to 96 recombinant DNA for direct PCR screening or sequencing in about 30 minutes with minimal hands-on effort, no organic solvent, no boiling, no centrifugation.

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Kit contents

item	description	quantity
LyseNow® Recombinant DNA Extraction Card	In 8 X 12 format	1
96 well plate	For DNA elution	1
DNA elution solution	For DNA elution	10mL

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Protocol

- 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.
- Sample application on card**
 - Keep the card on the absorption pad;
 - If sample number is less than 96, a strip of 2X12 discs can be torn off following the scissors sign; the corresponding underneath absorption pad is cut as well.
 - Apply up to 10 µL of bacteria culture preparation to each filter paper disc that embedded on the card;
 - Dry card at 37 °C for 20 min;

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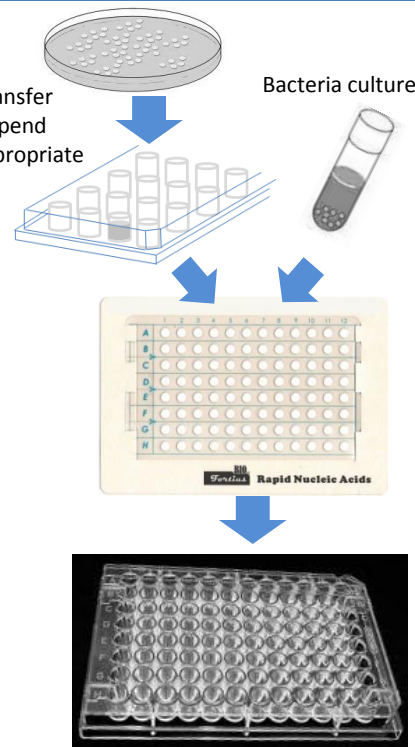
- (optional) Repeat the sample application-drying cycle up to total of three times to increase the sample loading volume and the final DNA elution concentration.

3. DNA Elution

- Take the card off the absorption pad;
- Align the card over a provided 96-well elution plate;
- Push out the discs into underneath plate wells using sterile pipette tips;
- Add 100 µL of provided DNA elution solution to each well;
- 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 DNA;
- Use elute for immediate PCR or sequencing.

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Pick the colonies and transfer into 96 well plate, resuspend each colony in 50 µL appropriate culture media



Brief workflow

- Apply 10 µL of bacteria culture onto a disc;
- Dry card at 37°C for 20 minutes;
- Take the card off the absorption pad;
- Align the card over a provided 96-well elution plate;
- Push discs into plate wells using sterile pipette tips;
- Add 100 µL elution solution to each well;
- Shake on a plate shaker at the maximal non-splashing speed for 10 minutes, or pipette for 50 times to elute DNA;
- Use elute for immediate PCR or sequencing.

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