



E200-8

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:

LyseNow® Food Pathogen DNA 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 gram negative food pathogen cells and release DNA (for gram positives, like listeria, please see [Listeria card](#)); discs are easily translocated to plate wells with sterile pipette tips; DNA are then easily recovered with a brief elution. Up to 96 food sample DNA can be extracted in about 30 minutes with minimal hands-on effort, no organic

solvents, no boiling, no centrifugation. Most of the food genomic DNA and PCR inhibitors from food and enrichment media are trapped in filter paper.

Kit contents

item	description	quantity
LyseNow® Food Pathogen DNA Extraction Strip Card	12 X 8 sample strips	1
96 well strip plate	For DNA elution	1
DNA elution solution	For DNA elution	10 mL

Protocol

- Food Sample enrichment**
 - Follow the appropriate protocols to enrich food pathogens.
- Sample application on card**
 - Apply up to 10 µL of food enrichment culture 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;
 - Dry card in the enrichment incubator for 15 min;
 - (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.

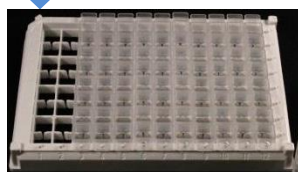
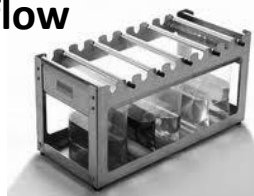
1

2

3

4

Brief workflow



3. DNA Elution

- Align the filter paper discs over one row of a 96 well plate;
- Push out the discs into underneath plate wells using sterile pipette tips;
- Add 100 µL of provided DNA elution solution to each well;
 - Warm the DNA elution solution in enrichment incubator prior to elution can increase the DNA elution.
- 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.

- Apply 10 µL of enrichment on a filter paper disc on the card;
- Partially fold back the absorption pad along the perforated line to fully expose the discs in air;
- Dry the card at 37°C for 15 minutes
- Align the filter paper discs over one row of a 96 well 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 up and down for 50 times to elute DNA;
- Use elute for immediate PCR.

5

6