

Coliform Count Plate instruction manual

Name Coliform Count Plate

Product No. NBP002

Specification 25plates/bag

Intended Use

Used for the enumeration of coliforms in food and raw food materials.(GB、ISO、FDA、AOAC)

Product Introduction

The test plate comprises a baseplate, a limit ring, culture medium powder and a top film. The main nutrients of culture medium powder are consistent with the violet red bile agar medium. in 《GB4789.3-2016 Microbiological examination of food hygiene—Enumeration of coliforms》.

Sample Preparation

The sample was diluted according to the sample dilution method in 《GB4789.3-2016 Microbiological examination of food hygiene—Enumeration of coliforms》. Based on the sample type, 2 or 3 suitable diluted sample solutions (Liquid samples can be inoculated directly) were selected for inoculation detection.

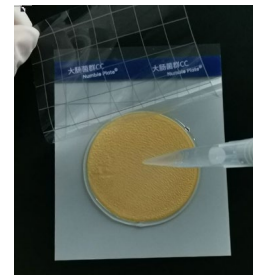
Test Procedure



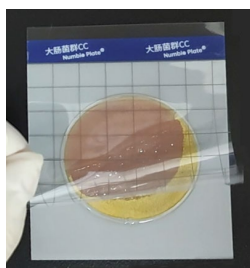
1. Open the aluminum foil bag, and remove the Coliform Count Plate .



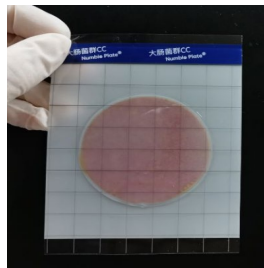
2. Place the test plate flat on a flat, level surface and lift the top film.



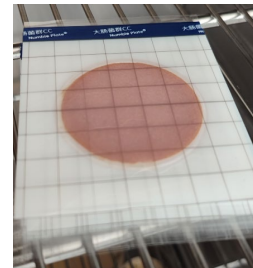
3. Dispense 1.0 mL of sample solution onto test plate center.



4. Slowly cover the film and the sample solution will diffuse throughout the culture area.



5. After the solution completely absorbed, move it out of the test bench.



6. Incubate the test plates at 36 ± 1 °C for 48 ± 2 hours .

Result Count

1. Select the test plates containing between 15-150 CFU and count red colonies with bubbles;

2. For plates with more than 150 colonies, colony counts can be estimated by counting colonies in one representative grid square and multiplying by 20.

3. If there is no colonies or fewer colonies at a certain dilution, and there are colonies at the next dilution and within the ideal counting range, the sample may contain antibacterial ingredients. At this time, count the number of colonies at the next dilution.

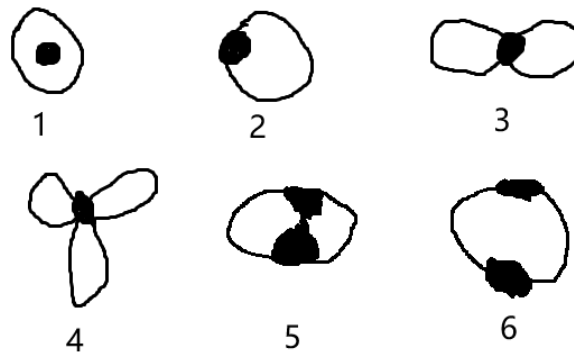
Result Explicate

1. Bubbles produced by a single positive colony, as follows.

1) A bacterium produces a bubble, with the bacterium at the center or edge of the bubble. (eg.1、 2)

2) A bacterium produces two or more bubbles. (eg.3、 4)

3) During the expansion of the bubble, it is possible to break the colony, resulting in the colony growing on the edge of the bubble. (eg.5、 6)



2. Bubbles produced by two or more bacteria may also be connected.

3. Bubbles not produced by colonies:

1) Incorrect operation (if the sample solution contains air bubbles) may lead to air bubbles in the plate, which are not related to bacteria.

2) After covering the film, lifting the film again will also lead to more bubbles.

Storage

(Unopened) Store in dark place 2-8°C; (Opened) Seal and store in dark place at 2-8°C, and use up in 1 month.

Precautions

1. After adding the sample solution, cover the film as soon as possible (within 5s);

2. If the sample is viscous, solution diffusion can be assisted manually;

3. If the plate have bubbles near the limit ring under the top film, which will not affect the test result;

4. Test plate should not be stacked more than 20 pieces during incubation period;

5. Keep the count plate away from ultraviolet, direct sunlight and fluorescent lamp;

6. Used plates should be autoclaved before being discarded.

Product data download

MSDS, <https://www.beijinglandbridge.com/>, in the "quality inspection report" and "MSDS" page, enter the product NO. and lot NO. to download.

For laboratory use in industry or R&D purpose. Not for drug, household or other uses.