

HP006 Handy Plate® Cronobacter Sakazakii Count Plate

【Product Name】 Handy Plate® Cronobacter Sakazakii Count Plate

【Product Code】 HP006

【Packaging Specifications】 20 pieces/pack

【Product Introduction】

Handy Plate® Cronobacter Sakazakii Count Plate is ready-to-use media product containing standard media, cold water gel and color indicator. This product can be used for the determination of Cronobacter sakazakii in foods such as milk powder.

【Instructions for Use】

1. Sample Preparation

Pre-enrichment

Aseptically weigh 100g (mL) of sample, put it in a sterile homogenizing bag which containing 900mL of buffered peptone water (BPW) preheated to 44°C, and homogenize it with a homogenizer for 1-2min. If the sample is liquid, shake to mix. If necessary, adjust the pH of the sample homogenate to 6.8 ± 0.2 with sterile 1 mol/L NaOH or 1 mol/L HCl solution. Incubate at $36^{\circ}\text{C}\pm 1^{\circ}\text{C}$ for $18\text{h}\pm 2\text{h}$.

Enrichment

Gently shake the cultured sample mixture, transfer 1 mL into 10 mL of mLST-Vm broth, and incubate at $44^{\circ}\text{C}\pm 0.5^{\circ}\text{C}$ for $24\text{h}\pm 2\text{h}$.

2. Inoculation

Place the E. sakazakii count plate on a flat laboratory surface, uncover the upper film, and use a sterile pipette to draw 1 mL of sterile water or sterile normal saline dropwise into the center of the test piece, and slowly cover the upper film to avoid bubbles are generated. Let stand for 0.5-1h to allow the sample solution to diffuse and re-form a gel. Remove the upper layer of the membrane, and use a 1 μL inoculating loop to scrape 1 loop of enrichment solution and streak it on the gel.

Or use a 1mL sterile pipette to aspirate 1 mL of enrichment solution and inject 9 mL of sterile physiological in a test tube of saline or phosphate buffer dilution solution, shake to become a 1:10 sample homogenate, and so on,

Prepare a 10-fold serial dilution of the sample homogenate, one pipette at a time. Based on an estimate of the contamination status of the sample, select 2 to 3 dilutions for detection (it can be the stock solution after enrichment). Place the count plate on a flat table, peel off the upper film, draw 1 mL of the sample with a sterile pipette and drop it into the center of the count plate, slowly cover the top layer to avoid air bubbles. Let stand for 3 to 5 minutes to allow the sample solution to diffuse and re-form a gel.

3. Cultivate

Place the plate face-up horizontally at $44^{\circ}\text{C}\pm 0.5^{\circ}\text{C}$ and incubate for 18~24h.

4. Interpretation

Suspected *Enterobacter sakazakii* is blue-green colonies, and other bacteria are black or colorless colonies. If the entire culture area is blue-green, the bacterial concentration may be too high, and the sample needs to be further diluted to obtain the exact calculation. To isolate colonies for further analysis, remove the upper film and use an inoculating needle to pick out the colonies for use.

【Storage conditions and shelf life】

Store at $2\sim 8^{\circ}\text{C}$, validity period is 18 months.

Unpacked test plate should be put back into the packaging bag, folded and sealed, and the storage time should not exceed four weeks.

【Waste Disposal】

The test plate may contain microorganisms after use, so it should be discarded according to regulations after sterilizing by high pressure at 121°C for 30min.

【Safety】

Users should read, understand and follow all safety information in this instruction.

To reduce risks associated with biohazards and environmental pollution, please strictly follow the disposal regulations for biohazardous waste.

To reduce the risks associated with microbial contamination and the work environment, use this product in professional microbiological testing personnel and in a well-equipped laboratory.

To reduce the risk associated with error in results, please verify the use of this product in other industries. For in vitro laboratory use only, do not use in the diagnosis of humans or animals.

【Disclaimer】

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