环凯生物
HuanKai Biology

蜡样芽胞杆菌测试片

使用说明书

产品名称	产品编号	包装规格
蜡样芽胞杆菌测试片	HP015	20 片/包

【产品简介】

Handy Plate® 蜡样芽胞杆菌测试片为预制备的即用型培养基产品，含有标准的培养基，冷水凝胶和显色指示剂。本产品可用于蜡样芽胞杆菌的快速测定及计数。

【使用说明】

1. 样品制备

称取样品 25 g，放入盛有 225 mL PBS 或生理盐水的无菌均质杯内，用旋转刀片式均质器以 8000 r/min～10000 r/min 均质 1 min～2 min，或放入盛有 225 mL PBS 或生理盐水的无菌均质袋中，用拍击式均质器拍打 1 min～2 min。

若样品为液态，吸取 25 mL 样品至盛有 225 mL PBS 或生理盐水的无菌锥形瓶(瓶内可预置适当数量的无菌玻璃珠)中，振荡混匀，作为 1:10 的样品匀液。用 1mL 无菌吸管或移液器吸取 1:10 匀液 1 mL，注入含有 9 mL PBS 或生理盐水的试管内，振摇后成为 1:100 的样品匀液，以此类推制备 10 倍系列稀释的样品匀液，每次换一支吸管。根据对样品污染状况的估计，选择 2～3 个稀释度进行检测。

2. 接种

将蜡样芽胞杆菌测试片置于平坦实验台面，揭开上层膜，用无菌吸管吸取 1 mL 样品或稀释的样品，滴加到测试片中央，盖上膜，静置 30 秒左右使形成凝胶。

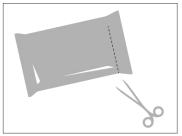
3. 培养

将测试片正面向上水平放置，36±1℃条件下培养 24±2 h，测试片堆叠最多不超过 20 片。

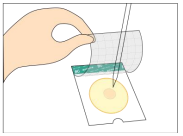
4. 判读

蜡样芽胞杆菌为蓝绿色菌落，菌落边缘平整。若整个培养区域呈淡蓝绿色，可能是菌浓度过高，需对样品进一步稀释以获得准确的计数。如需分离菌落进行进一步分析，揭开上层膜用接种针将菌落挑出使用即可。

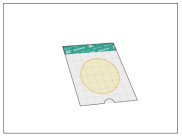
【操作图解】



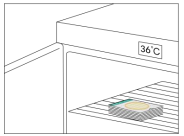
1. 用剪刀沿虚线剪开，取出测试片盒。



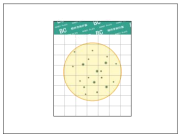
2. 将测试片放在水平台上，揭开覆膜，将 1mL 样品液滴加在测试片中。



3.缓慢盖上覆膜，轻压一下。



4.将测试片正面朝上，放置于恒温培养箱中，36±1℃培养 24±2 h，测试片堆叠不应超过 20 张。



5.根据判读手册判读测试片上是否有目标菌生长，对菌落进行计数。

（扫描二维码观看操作视频）

【储存条件与保质期】

2~8℃密封储存，有效期为 18 个月。

已打开包装未使用的测试片装回包装袋中，折叠后用包装袋内的不干胶贴密封，储存时间不超过 4 周为宜。

【废弃物处置】

测试片在使用之后可能包含微生物，需在 121℃ 30 min 高压蒸汽灭菌处理后严格按规定的方式处理。

Bacillus Cereus Count Plate

Product No.	Type of Product	Packaging Specifications
HP015	Handy Plate®	20 plates/pack

【Usage】

Handy Plate® Bacillus cereus Count Plate is a pre-prepared, ready-to-use culture medium product containing standard culture medium, cold-water-soluble gelling agent, and chromogenic indicators. This product is suitable for the rapid detection and enumeration of Bacillus cereus.

【Instruction】

1. Sample Preparation

Weigh 25 g of the sample and place it into a sterile homogenization cup containing 225 mL of phosphate buffered solution or physiological saline. Homogenize using a rotary blade homogenizer at 8000 r/min – 10000 r/min for 1 – 2 minutes.

Alternatively, place the sample into a sterile stomacher bag containing 225 mL of PBS or physiological saline and homogenize using a stomacher for 1 – 2 minutes.

For liquid samples, aseptically transfer 25 mL of the sample into a sterile conical flask containing 225 mL of PBS or physiological saline (with an appropriate number of sterile glass beads pre-added if necessary), and mix (shake well) to obtain a 1:10 sample homogenate.

Using a sterile 1 mL pipette, transfer 1 mL of the 1:10 homogenate into a test tube containing 9 mL of PBS or physiological saline. Mix to obtain a 1:100 dilution. Continue preparing tenfold serial dilutions in the same manner, using a new sterile pipette each time.

Based on the estimated contamination level of the sample, select 2 – 3 appropriate dilution levels for testing.

2. Inoculation

Place the Bacillus cereus count plate on a flat laboratory surface. Peel off the top film, and use a sterile pipette to transfer 1 mL of the sample or diluted sample onto the center of the count plate.

Cover with the film and allow it to stand for 2 – 3 minutes to form a gel.

3. Incubation

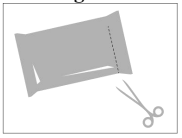
Place the count plates in a horizontal position with the front side facing up. Stack no more than 20 plates and incubate at 36 ± 1℃ for 24 ± 2 h hours.。

4. Interpretation

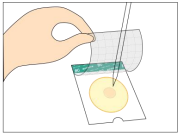
If the entire culture area turns light blue-green, it may indicate that the bacterial concentration is too high. In this case, further dilution of the sample is required to obtain accurate counts.

If colony isolation for further analysis is needed, peel off the top film and pick colonies using an inoculating needle for subsequent use.

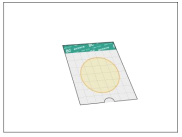
【Process Diagram】



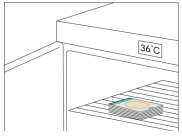
1.Cut along the dotted line with scissors and remove the count plate.



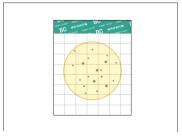
2.Place the count plate on a horizontal platform, peel off the protective film, and add 1 mL of sample solution to the count plate.



3.Slowly cover with the film and press lightly.



4.Place the count plates with the frontside facing up in a constant temperature incubator. Incubate at 36 ± 1 ℃ for 24 ± 2 hours. The number of stacked plates should not exceed 20.



5.Determine whether the target organism has grown on the count plate according to the interpretation manual, and count the

（Note: Scan the QR code on the left to watch the operation video.）

【Storage and Shelf Life】

Store sealed at 2~8℃, valid for 18 months.

Put the unused count plate back into the packaging bag, fold it and seal it with a self-adhesive sticker. The storage time should not exceed 4 weeks.

【Waste Disposal】

The count plate may contain microorganisms after use and must be sterilized by high pressure steam at 121℃ for 30min and then handled in strict accordance with regulations.