Operation Manual

BCLC-101

Bacterial Colony Counter

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01 Introduction

BCLC-101 colony counter is the automatic bacteria inspection instrument of one kind of digital display type. It is composed by counter, probe, and count pond etc. It is designed by CMOS integrated circuit and LED's digital shows. The character is 13mm high and very distinct and bright. The special probe counts sensitively and accurately . The comparison between bacterium illuminated by fluorescent lamp shows clearly and also is easy to be observed in black count pond . This instrument can lighten the labor intensity and make the work with great efficiency , and is extensively used in the foodstuff , drink , drug , biological product , cosmetics , hygienic articles , drinking water , life foul water , industry waste water and clinical specimen inspection of bacteria number. It is also the necessity of these unit below: grand epidemic prevention stations at all levels and the hygienic control inspection of environmental monitoring station, foodstuff the place, hospital , biological product institution, and the medicine inspection station, the business bureau , food products factory , drink factory , cosmetics factory , junior college and the scientific research unit laboratory .

02 Technology parameter

2.1 Counter capacity 0 ~'s 9999 (note *)
2.2 Active display window character height 13mm
2.3 Lamp power 16W
2.4 Total power are smaller than 20W
2.5 Supply voltage 220V and 50/60Hz, Volume 255 * 180 * 110.
2.6 The magnification of magnifier connected with flectional arm are variable ,
2.7 The instrument weights 1.7Kg

03 Use method

(Note*) According to the bacteria count inspection regulations, when the number of bacteria growth in a petri dish exceeds 300, the test sample should be diluted and reproduced to ensure the accuracy of the count. According to this, the instrument counts as a three-digit number:
1. Insert the power plug into the 220V power socket. Insert the probe pen into the probe pen socket on the instrument.
2. Turn the power switch to "ON" and the light in the counting cell will be on. At the same time, a bright "0000" is displayed in the display window, indicating that counting is allowed.
3. Put the petri dish to be inspected into the counting cell with the bottom up. Use a probe to count all the colonies one by one on the bottom of the petri dish. At this time, the colony is marked with color, and the number in the display window is automatically accumulated.
4. Check carefully with a magnifying glass to confirm that there are no omissions, and the counting is complete.

5. The number in the display window is the number of colonies in the petri dish.
6. Take out the petri dish after recording the number. Press the "Reset 0" button to display the recovery "0000", ready for counting in another petri dish.

04 Notes

1. The instrument should be placed on a flat and firm test bench for use.
2. When counting the colonies, don't tilt the pen too much. Tap lightly until there is a sense of bouncing, and the number will be entered.
3. The instrument should be protected from moisture, strong vibration, direct sunlight, and acid and alkali corrosion, and a dust cover should be added after use.
4. Pay attention to prevent contamination of the counting pool by bacterial cultures.
5. The instrument and probe pen are not allowed to be disassembled at will. If any malfunction is found, please ask an experienced technician for inspection and repair.
6. After the instrument is used or left for a long time, there will be dust on the surface of the magnifying glass. Use purified water to clean it slightly, and then wipe it clean with lens paper for later use.

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