OPERATING MANUAL

COLONY SPREADER

BCLC-103

CE ISO9001 CERTIFIED

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User Manual

Statement:
The performance characteristics and experimental results of the product presented in the user manual of the colony spreader is originated from correct and skilled use of the product by the user in accordance with the requirements of the manual. The company has the right to upgrade its products regularly, and make corresponding modifications and updates to this manual. The manual delivered by the company is the latest version at the moment. Users can call the company's customer service to obtain
the latest version of the instrument manual.
User Manual
Version Update

Version	Date	Modified content	Pages
Version 1.0	2015-8-19	Create	All

1. How to use this manual

1.1 Warning

Different types of warning signs are used throughout this manual:
- For safety reasons (dangerous!)
- To ensure that the instrument is in good working condition (careful!),
- For regulatory reasons (warning!),
- In order to obtain the best operating performance, etc. (important!).

Please read general safety and regulatory information before using this instrument.
1.2 Special Warning

 Dangerous!
If there is a power failure in colony spreader operation, please do not do maintenance when it is powered on, please call the manufacturer for consultation

Note:Do not repair without the after-sales engineer presence

Important:
please read the manual carefully before using the instrument. In any case, only skilled technicians can maintain and repair the instrument. Untrained personnel should not try to disassemble the instrument to avoid unnecessary losses. The user can only use the accessories and parts provided or specified by the manufacture. The use of unapproved accessories may affect the performance and safety features of the instrument design.
If you have any questions, please contact the engineer of the manufacture or the engineer of your local distributor.

2. Summary

2.1 Function

Micro-Rot Alpha colony spreader is composed of a rotatable platform for placing a petri dish and an electric
control part, which is the latest generation product specially designed and manufactured for the "microbial colony
spreading" a step of the microbial experiment "classical culture method" . It is applicable for both plastic plates and
glass plates. This product is widely used in the microbiological inspection of food safety, beverages, medicines,
biological products, sanitary products, drinking water, and industrial wastewater as well. It is a necessary basic
instrument for "microbial colony spreading and inoculation" of various microbiological laboratories.

2.2 Features

Micro-Rot Alpha features:
• Automatic coating
• 4 speeds can be adjusted according to the habits of experimenters
• Simple equipment maintenance
• Be sterilized by disinfectant and UV
• Suitable for 90mm petri dishes
• Long-term standby and continuous operation.
The correct accessories must be used for each function

2.3 Intended Use

Micro-Rot Alpha is an instrument for professional use only. This instrument is specially designed for laboratory personnel to carry out microbial colony spreading. It has the features of convenient use, long standby operation, disinfectant and ultraviolet sterilization, and even coating.
Warning! Our company is not responsible for any experiment results other than the operation of this instrument.

2.4 Specification

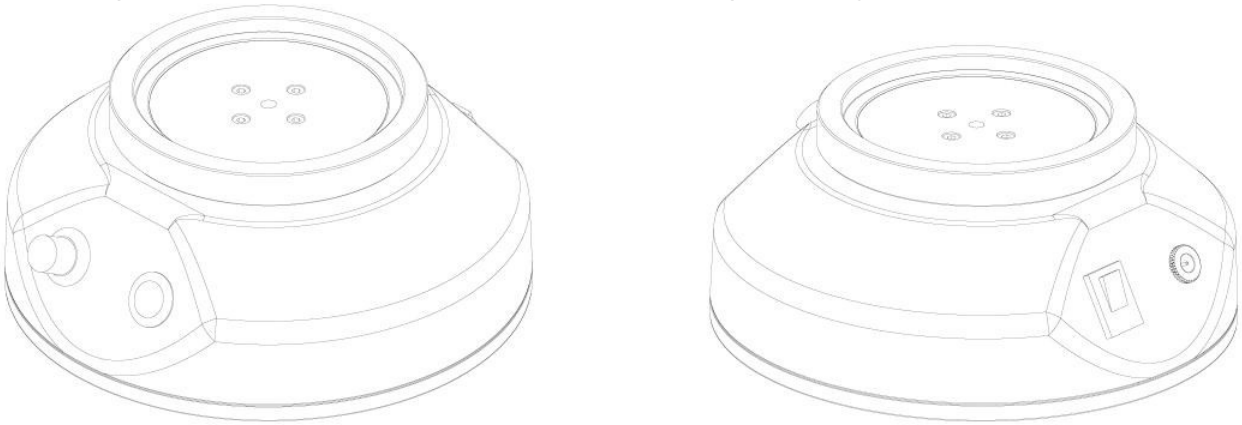
2.4.1 General parameters

Parameters	Index
	Voltage：~220 V
Main power supply voltage	Frequency：50 Hz
	The main power switch is on the rear panel of the instrument
Current	0.5A
Dimension	
Diameter	170 mm (67 inches)
Height	80 mm (31.5 inches)
Weight	1.2 kg (2.6 lbs.)
Environment Temperature	
Running Temperature	15 °C to 30 °C (59 °F to 95 °F)
Storage Temperature	- 20 °C to 55 °C (- 4 °F to 135 °F)
Relative Humidity	31 °C 时不大于 80%
Pollution Level	2
Altitude	≤ 2000 m
Voltage Classification	II
Equipment Type	Laboratory desktop device
Operation Mode	Continuous Operation
Waterproof Level	Ordinary

2.4.2 Operating parameters

Parameters	Index
Running speed	200RPM, 250RPM, 300RPM, 350RPM
Running mode	Continuous operation

This instrument can realize the standardization of bacterial coating, avoiding errors caused by different operators,ensuring flat and even coating of the liquid containing bacteria every time and all bacterial growth. The instrument operation is keep from uneven bacterial growth and colony overlap phenomenon caused by manual inoculation and convenient for colony counting.



Microbial Colony Spreader

3. Technical Description

3.1 flat plates: 90 mm diameter petri dishes, plastic plates and glass plates.
3.2 Starting method: Set up the motor by pressing the switch to drive the rotating platform to automatically rotate.
3.3 Supporting accessories: stainless steel colony spreading rod or sterile disposable plastic colony spreading rod.
3.4 Instrument material: internal pure metal alloy structure, the outer shell is made of medical ABS specialized material, which is convenient for sterilization and durable.
3.5 Anti-slip design: the rotating plate has a built-in silicone pad to prevent relative sliding between the petri dish and the rotating plate.

4. How to work

4.1 Turn on the instrument。
4.2 Place the petri dish on the rotating platform, and put an appropriate amount of sample solution into the center of the petri dish.
4.3 Use the coating rod to guide the sample solution and draw a "cross" in the petri dish.
4.4 Turn on the switch , the rotating platform starts to rotate, the spreader is dragged from the center to the edge, and the platform rotates to produce a flat and even culture liquid film.
4.5 Turn off the switch, the rotating platform stops to rotate. Replace with a new petri dish, and re-start the colony spreading of new petri dish from step 2.
4.6 In the condition of non-working, the speed botton can be adjusted for the perfect speed.

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