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MAST[®] DISCMASTER 8 Place Dispenser

REF MDD8

Antimicrobial susceptibility disc dispenser for 8 MASTDISCS[®] cartridges.



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The MAST® DISCMASTER 8-Place Dispenser (Product code: MDD8)

Introduction

The MAST® DISCMASTER 8-Place Dispenser (MDD8) is a reliable and robust hand operated device for placing antimicrobial susceptibility discs onto the surface of an agar plate. Precision engineered to incorporate all the advantages offered by disc diffusion methodology, the MDD8 dispenser is designed for use with MASTDISCS® Antimicrobial Susceptibility Test Cartridges.

The MDD8 has been developed with the needs of the end user in mind, incorporating a 'cartridge empty lock-off' system and a semi-transparent height adjustable base ring, which is marked with a height scale to ensure positive placement of discs onto the agar surface. Housed in an ergonomically designed canister with desiccant, the dispenser is supplied with wipe-clean labels for the side and top of the storage canister and the dispenser.

Intended Purpose

MDD8 is a manually operated height adjustable device designed to dispense 8 MASTDISCS® on to a 90mm diameter agar petri dish as an accessory to antibiotic susceptibility testing.

FOR IN VITRO DIAGNOSTIC USE ONLY

Materials Supplied

- 1x MDD8 Dispenser
- 1x Storage Canister
- 2x Packs of two Silica Capsules
- 1x Instructions For Use document (IFU)

Materials Required but Not Provided

MASTDISCS® Cartridges
Agar Petri Dishes – 90mm in diameter

Storage Instructions

- Store between -5-30°C, do not store in direct sunlight. If any MASTDISCS® are stored in the dispenser refer to IFU112 for specific storage instructions.
- When in use always allow the dispenser and container to equilibrate to room temperature before opening, and return to 2-8°C after use.
- For full usage and storage instructions of MASTDISCS® Antimicrobial Susceptibility Test Cartridges refer to IFU112 Instructions for Use.

Warnings & Precautions

- If the dispenser shows signs of degradation or failure, e.g. poor performance or damage please see the troubleshooting guide at the end of this document.
- Do not use the dispenser if it is damaged.
- If the dispenser jams, or fails to dispense, do not remove the screws at the base of the dispenser. This will invalidate your warranty and may result in injury.
- Do not apply grease to the cannister seal.

Adjusting Dispenser Height

To adjust the height of the dispenser the base ring is rotated. As this action is carried out an audible 'click' will be heard, this ensures that the selected height setting remains unchanged during normal use. The scale on the side of the dispenser can be used as an aid to adjustment. Should the ring be turned too far and it separates from the base of the dispenser, gently insert the two locating lugs into opposing grooves and twist gently into place. No force is required for this operation.

Inserting Cartridges

Hold the MASTDISCS® cartridge to be loaded at the label end and line up the lug with the slot in the tube holder of the dispenser. Firmly but gently, press the cartridge down until an audible 'click' is heard. This ensures that the cartridge is locked into position. Repeat with the remaining MASTDISCS® cartridges. Ensure all cartridges protrude the same amount out of the top of the dispenser.

Dispensing Discs

Place the dispenser over the Petri dish, then fully depress the handle of the dispenser in a smooth, continuous, downward movement and release. Do not exert undue pressure on the handle.

N.B. Under no circumstances should a locked dispenser be exposed to excessive force as this will damage the mechanism.

If the dispenser fails to operate for any reason please consult the troubleshooting guide at the end of this document.

After Use

Check the dispenser for foreign material and if required clean and decontaminate as described below. Return the dispenser to its storage container and store as instructed.

Antibiotic Identification Labels

Each dispenser and canister have pre-fitted labels intended to aid in the identification of the loaded antibiotics. Each position on the dispenser is numbered, and has an associated label on the side of the unit. The canister has a label on the rear with locations for marking what antibiotics are loaded in which position.

These labels are compatible with dry-wipe marker pens. To remove the identification, wipe clean with 70% IPA and allow to air dry before re-marking.



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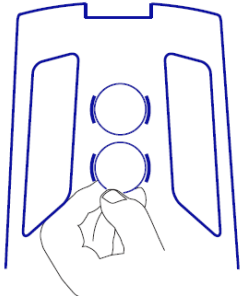
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Silica Gel Recharge Procedure

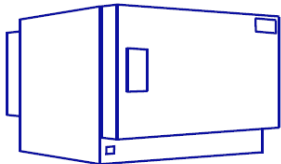
Ensure the desiccant remains yellow in colour at all times. If the desiccant appears green, regenerate by drying > 24 hours at 60 to 65°C. If the desiccant fails to achieve the yellow colouration, discard and replace with fresh silica gel. For optimum performance, ensure the canister seal remains clean and unobstructed.



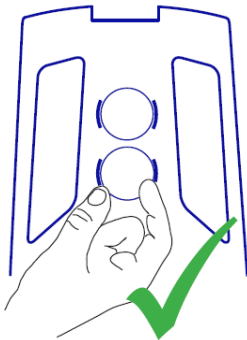
Warning: do not press on card cover of silica gel capsule



Remove silica gel capsule by lifting from behind.



Recharge silica gel by drying in a laboratory oven at 60 - 65°C for 24 hours, until yellow in appearance.



Insert capsule into retaining clip in canister.
Press in place with fingers on outside edge of the capsule.

Cleaning Procedure

Before cleaning remove all cartridges from the dispenser. For cleaning of minor material contamination (e.g. agar, dirt or dust) the use of 70% isopropanol solution using a cotton swab, or commercially available 70% IPA wipes, is recommended. Then allow to air dry.

For more stubborn dirt, use a diluted (1%) sodium hypochlorite solution or a diluted (2%) non-toxic quaternary ammonium salt disinfectant. Ensure that these

solutions are removed with water after cleaning and finish off with 70% IPA as above. Allow to air dry.

WARNING: Never use phenolic compounds, strong hypochlorite or detergent solutions which may cause damage to the surface of the unit. Use of acetone may cause discoloration and damage the dispenser body.

Decontamination

Under normal operation there should be no contamination of the dispenser. However, if this does occur proceed as follows:

1. Remove all cartridges then remove the blue base ring which should be decontaminated separately.
2. Decontaminate by immersing the dispenser in a diluted (2%) non-toxic quaternary ammonium salt disinfectant, until the inner steel body of the dispenser just touches the disinfectant solution. Leave for 15 minutes.
3. Rinse first with distilled water and then with 70% IPA.
4. Place at an angle, and allow to air dry at room temperature.

Warranty

MAST Group Limited extends a limited warranty on this product against defects in materials and workmanship. For further details, mainland UK customers should contact Mast Customer Services whilst non-mainland UK customers should contact their local distributor.

Note: In accordance with EU Regulation 2017/746 users must report serious incident to the National Competent Authority of all affected countries.

Limitations of Use

The **MAST[®] DISCMaster** Dispensers are designed for use with **MASTDISCS[®]** cartridges only.

Quality Control

No quality control tests are necessary prior to use of any **MAST[®] DISCMaster** Dispensers.

Patent & Design Registration

| | Dispenser | Canister |
|------------------------|-----------------|----------------|
| GB Patent | 2411894 | - |
| GB Design Registration | 900068959100015 | 90006896330001 |
| European RCD | 000689591 | 000689633 |

References

Bibliography available on request.

Revision History

| Revision | Description of Changes | Date |
|----------|------------------------|---------|
| 2 | Initial Release | 01/2025 |



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Troubleshooting Guide

