

ADATAB®

Intended Purpose

MAST® ADATAB are for addition to susceptibility test agar to perform routine agar dilution breakpoint susceptibility testing.

FOR IN VITRO USE ONLY
NOT FOR USE IN DIAGNOSIS OF HUMAN DISEASE

Principle of the test

MAST® ADATAB® are accurately prepared quantities of an antibiotic contained in a bacteriologically inert, non-interfering carrier substance. Each ADATAB is colour coded as follows:-

Blue – Low content suitable for susceptibility testing of organisms isolated from sites other than urine.

Red – High content for testing urine isolates.

White – Alternative contents

When ADATAB® are added to susceptibility test agar, agar dilution breakpoint susceptibility testing can be performed.

These methods should be used in conjunction with other *in vitro* devices in the aid of diagnosis.

Stability and storage

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening. Return to the refrigerator promptly after use.

Warnings and precautions

1. Observe approved biohazard precautions and aseptic techniques.
2. To be used only by adequately trained and qualified laboratory personnel.
3. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

Materials required but not provided

Standard microbiological supplies and equipment such as petri dishes, bottles, tubes, laminar flow cabinet, water bath, autoclave, balance, weigh boats, spatulas, thermometer, timer, additives such as defibrinated blood, deionised water, or suitable control strains of microorganisms.

Procedure

1. Label Petri dishes with the concentration to be prepared using the self adhesive labels provided.
2. Sterilise the appropriate volume of susceptibility test medium to be supplemented, cool to 50 to 55°C and hold in a waterbath at this temperature.
3. Using sterile forceps add one MAST ADATAB for each 100 mL volume of medium.
4. After the ADATAB has broken up, swirl the bottle 3 to 4 times and invert it to complete dispersal.
5. After dissolving the ADATAB, other supplements e.g. blood may be added to the medium as required.
6. Mix well, pour culture plates of appropriate thickness and allow to set.
7. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week.

Refer to local Health and Safety handling procedures for infectious waste disposal guidelines.

Technical Guidance

Observe the tablet before use. If the tablet is discoloured or lumpy, this could be a sign of degradation and must be further examined.

Interpretation of results

Growth on both the control antibiotic free plates but not on a test plate containing an antibiotic breakpoint concentration indicates susceptibility at that concentration. Growth on control and test plates indicates resistance at that concentration.

Classify test isolates as Susceptible (S) or Resistant (R) by referring to appropriate antimicrobial susceptibility interpretative criteria.

Limitations of use

Any deviation from the prescribed method may produce incorrect results.

It is strongly recommended that the latest published version of the method used is consulted for complete details of test procedures and interpretive criteria.

Certain antibiotics are unstable in poured plates and may not retain their potency over one week.

Certain naturally coloured antibiotics cannot be colour coded.



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Quality Control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Table 2. Suggested organisms for QC

Test Organisms
<i>Escherichia coli</i> ATCC® 25922*
<i>Pseudomonas aeruginosa</i> ATCC® 27853*
<i>Staphylococcus aureus</i> ATCC® 29213*

*See appropriate quality control table

References

Bibliography is available on request.