



Antimicrobial Susceptibility Testing

UMIC[®] Product Line

High accuracy single drug MIC testing

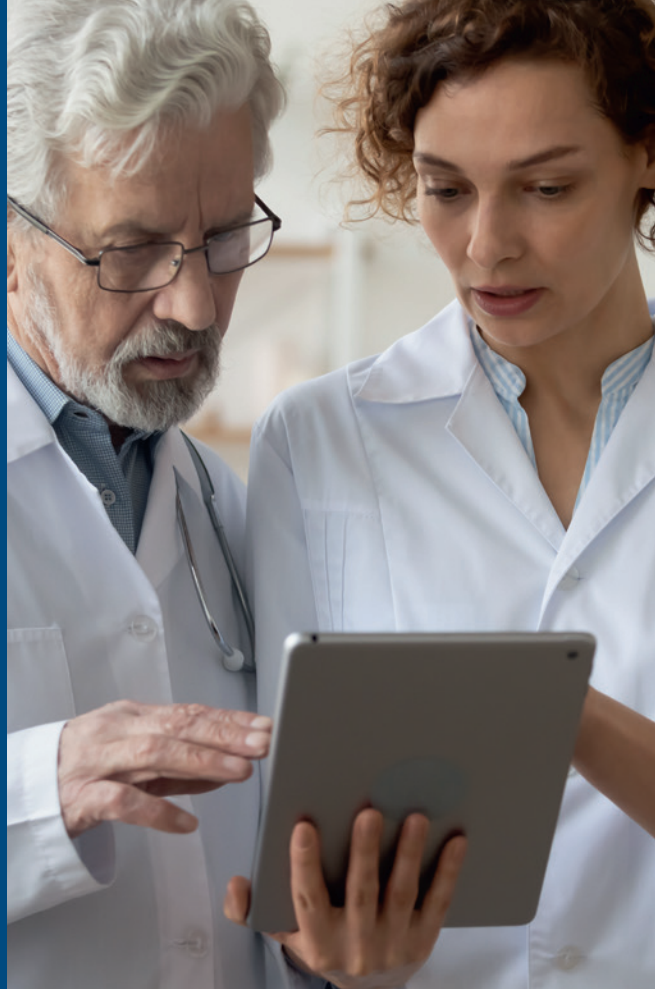
Innovation with Integrity

IVD

Laboratories challenged by the threat of antimicrobial resistance

The overuse of antibiotics has led to the emergence of Multi-Drug Resistant bacteria (MDR), notably by the high transmission rate of plasmid mediated resistance genes. Current antimicrobial susceptibility testing (AST) methods suffer from limitations that impact the laboratory workflow with delayed results and extra costs due to retests.

Broth microdilution (BMD) is the reference method recommended by EUCAST and is easy to perform with standardized tools such as UMIC.



An accurate and easy to implement MIC method

The broth microdilution method provides an accurate and reliable MIC testing procedure that can be easily implemented in clinical microbiology laboratories, complementing the routine AST workflow. For this purpose, UMIC, a flexible solution providing EUCAST & CLSI compliance, simplicity and convenient logistics, has been designed to resolve current limitations.



High accuracy single drug MIC testing by Umic

UMIC are ready-to-use strips with 12 wells each, containing dried antibiotics and prepared according to the ISO 20776-1 standard, therefore delivering accurate MIC results based on the reference method.

As single strips, UMIC allow flexibility in the choice to test one or several drugs for a clinical isolate, from the same bacterial inoculum. The strips are clearly marked to avoid mixing up.

UMIC strips are easy to implement in routine workflows by using the same 0.5 McFarland inoculum as prepared for general AST methods. The incubation boxes help maintain the humid atmosphere and can easily be recognized in the incubator. Additionally, they serve as a reading tool, with a reminder of the antibiotic concentrations present in the wells of the UMIC strip. The long shelf life (24 months from date of manufacturing) as well as convenient storage at room temperature are simplifying logistics and keeping costs under control.



Easy workflow at a glance

1 Inoculum preparation

Freshly isolated colonies

Suspension in NaCl

Homogenization

0.5 McFarland

Gram \oplus : 50 μ L
Gram \ominus : 25 μ L

5 mL of suitable Mueller Hinton broth (see IFU)

2 UMIC strip inoculation

UMIC strip

1 Insertion of the strip in the frame

2 Inoculum: 100 μ L in each well

Frame

3 Incubation in the UMIC Box*

35 \pm 1°C in humid atmosphere

For 18 \pm 2 hours**

PREERVED HUMID ATMOSPHERE

CLEAR IDENTIFICATION (ONE BOX PER ANTIBIOTIC)

REUSABLE

EASY READING

* Incubation can be done in a standard incubator without using the UMIC Box
**Unless specific recommendations from EUCAST

4 Result reading

Turbid = growth = positive

Clear = absence of growth = negative

The growth control must be positive

MIC = FIRST CLEAR WELL

Colistin

UMIC

Easy reading of the MIC with the UMIC Box

Results sheet
Colistin

Patient ID	Date and incubation time	1	2	3	4	5	6	7	8	9	10	11	12	MIC	Date & Signature
		+	+	+	+	+	+	+	+	+	+	+	+	2	

Report on the provided results sheet

Order Information

UMIC Strips

UMIC Colistin

40 tests per box
Part No. UM-COL-040

UMIC Vancomycin/Teicoplanin

40 tests per box
Part No. UM-VAN/TEI-040

UMIC Daptomycin

40 tests per box
Part No. UM-DAP-040

UMIC Piperacillin-Tazobactam

40 tests per box
Part No. UM-PIT-040

UMIC Cefiderocol

40 tests per box
Part No. UM-CID-040

Mueller Hinton Broths

Mueller Hinton II

1 tube per test, 20 tubes per box
Part No. UM-MH-020

Iron-depleted CAMHB

1 tube per test, 20 tubes per box
Part No. E2-333-020

Accessories

UMIC Box Colistin

One box (reusable)
Part No. UM-BOX-COL

UMIC Box Vancomycin/Teicoplanin

One box (reusable)
Part No. UM-BOX-VAN/TEI

UMIC Box Daptomycin

One box (reusable)
Part No. UM-BOX-DAP

UMIC Box Piperacillin-Tazobactam

One box (reusable)
Part No. UM-BOX-PIT

UMIC Box Cefiderocol

One box (reusable)
Part No. UM-BOX-CID

Please contact your local representative for availability in your country.
Not for sale in the USA.



UMIC® is a registered trademark of the Bruker group of companies.

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