



MICRONAUT

● MIC-Strip Vancomycin/Teicoplanin

What can it be used for?

The MICRONAUT MIC Strip Vancomycin/Teicoplanin enables antimicrobial susceptibility testing against the glycopeptide antibiotics vancomycin and teicoplanin by using the broth microdilution (BMD) method as advised by EUCAST for *Enterococcus faecalis* and *Enterococcus faecium* positive for vanA / vanB [1].

Antimicrobial susceptibility testing of vancomycin and teicoplanin has been fraught with difficulties until now. EUCAST recently issued recommendations confirming that BMD is currently the only valid method for MIC determination of vancomycin.

Gradient test methods for MIC determination of vancomycin are currently not recommended because of false susceptibility results for vanB-expressing *Enterococcus* spp. isolates due to underestimated MIC values.

Vancomycin concentration range

0.25 to 4 mg/L

Teicoplanin concentration range

0.25 to 8 mg/L

Manufactured by


Features and benefits

- Phenotypic detection of glycopeptide resistance (e.g. vanA, vanB)
- Standardized MIC determination of vancomycin and teicoplanin in routine laboratory diagnostics according to EUCAST recommendations
- The strip format permits economic use of the AST, adapted to the individual laboratory diagnostic requirements
- Easy handling combined with standard laboratory equipment, for high quality MIC results of vancomycin and teicoplanin
- No special expertise required, easy visual evaluation

Procedure

- Prepare a 0.5 McFarland bacterial suspension in NaCl
- Transfer an aliquot into Mueller-Hinton II broth (CAMHB)
- Inoculate the appropriate number of MIC-Strips
- Incubate for 18-22 hours at 35-37°C
- Read the results visually

Shelf life and storage

- Shelf life: 24 months from date of production (unopened), expires 8 weeks after opening
- Storage: at room temperature (15-25°C)

International ISO standard method

- MICRONAUT is a broth microdilution system using the international reference methodology (ISO 20776-1). MIC levels are based on EUCAST guidelines where applicable.

Reference

[1] EUCAST guidelines for detection of resistance mechanisms and specific resistances of clinical and/or epidemiological importance Version 2.0 July 2017.



Vancomycin (VAN) and teicoplanin (TPL) concentrations (mg/L)

1	2	3	4	5	6	7	8	9	10	11	12
GC	VAN	VAN	VAN	VAN	VAN	TPL	TPL	TPL	TPL	TPL	TPL
	0.25	0.5	1	2	4	0.25	0.5	1	2	4	8

Order Information

MICRONAUT MIC-Strip Vancomycin/Teicoplanin

5 plates, 8 strips per plate (40 tests per box) / Part No EM-022-040

Mueller-Hinton Broth, cation adjusted

1 tube per test, 20 tubes per box / Part No E2-331-020

1 tube per test, 100 tubes per box / Part No E2-331-100



Please contact your local representative for availability in your country

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