MICRONAUT-SB

Microplates for automated or manual susceptibility testing of bacteria

Principle

The susceptibility testing with MICRONAUT-SB plates is based on the rehydration of antibiotics and broth by adding a bacterial suspension. After incubation of 6 hours (rapid AST) or 18-24 hours at 35-37°C the plates are read photometrically with the Skan device and the results are evaluated with MICRONAUT software. The plates can also be read and interpreted visually.

Storage conditions

Because of a special vacuum drying process the plates are stable up to 24 months if stored at a room temperature of 15-25°C.

Test procedure

- Preparation of bacteria suspension in NaCl (McFarland 0.5)
- Transfer to MICRONAUT-SB Medium
- Inoculation of MICRONAUT-SB test plate
- Incubation for 6 or 18-24 hours at 35-37°C
- Photometric reading with the Skan device
- Interpretation of the results with MICRONAUT software

Antibiotics

Any customer defined antibiotic configuration (MIC or break point) can be offered. Depending on the antibiotics and concentration ranges selected (breakpoint or MIC) 1, 2 or 4 isolates may be tested on a single MICRONAUT-SB plate. In addition customers have the choice to select between a diversity of standard AST panels.

MICRONAUT-SB short instruction (rapid test)

preparation of the samples

MCN Software enter „Sx“

MICRONAUT-SB
1,2 or 4 test/ plate

bacteria

preparation of the inoculum

McFarland 0,5 or 2 in 5 ml NaCl

gram negative bacteria

gram positive bacteria

200 µl (McF 0.5) or 50 µl (McF 2) in 11 ml MICRONAUT-SB broth

400 µl (McF 0.5) or 100 µl (McF 2) in 11 ml MICRONAUT-SB broth

inoculation

transfer suspension into 1, 2 or 4 channel reservoir

100 µl in each well of the test

sealing and incubation

seal the plate with the unperforated plate sealer or stack up a maximum of 5 plates and cover only the one on top

incubation 18-24 h at 35-37°C

reading

reading visually or with photometer

MICRONAUT-SB short instruction (overnight test)