

**PROTOCOL FOR MIC-TESTING WITH SENSITITRE
of *Staphylococcus spp.***

CRL course Copenhagen 20-22 April 2009

20th April (afternoon)

MIC on 5 *Staphylococcus* isolates including the QC reference strain:

- 1- strain 1
- 2- strain 2
- 3- strain 3
- 4- strain 4

QC strain : *S. aureus* ATCC 29213

Protocol:

MIC determination of *Staphylococcus*

1. Check the culture for contaminations
2. Calibrate the nephelometer with the McFarland standard:
Turn it gently upside-down a couple of times until completely dissolved
Do NOT shake or mix the standard

Do NOT touch the standard in the area that enters the nephelometer

3. Pick material from 3-4 colonies (to avoid only picking bacteria that lost their resistance) and prepare a suspension in 4 ml saline (use the inside of the tube) – vortex mix.
4. Adjust the suspension to McFarland 0.5 (add material or add saline) this corresponds to $\sim 1-2 \times 10^8$ CFU/ml
5. Transfer 50 μ l of the suspension to 10 ml of “MH broth”.
Critical step for cross-contamination ! Use tips with extra length.
6. Exchange the screw cap with a dosing head – do NOT touch the dosing tip !
7. Turn upside down
8. Inoculate 50 μ l per well in the DKMVR2 panels- Inoculum is now $\approx 5 \times 10^5$ CFU/ml.
9. Seal the panel with normal sealing – tighten all way around the edge to avoid evaporation.
10. Make purity control by spreading a loop (1 μ l) of the final suspension on a blood agar plate
12. Incubate at 37°C for 18-20 hours.

To avoid growth of the inoculum, no more than 15-20 minutes should pass from suspensions are prepared to the inoculation and incubation occurs.

Incubate 18-20h at 36C