

Anaerobier och resistensbestämning – en uppdatering

USJ/GK

Still left with gradient strips

... for routine antimicrobial susceptibility testing of anaerobes

Problems – YES!

Piperacillin-tazobactam not available at the moment.

On and off, problems with several gradients tests.



... but continuing the work on disk diffusion

The Brucella Blood Agar (BBA) is **OUT**

The Fastidious Anaerobe Agar (FAA) is **IN**
(being evaluated at the moment)

**Growth is really good on the FAA
(compared to the BBA) !!**

Pilot study with FAA

Interlaboratory comparison

Huge differences > 10 mm between Växjö, Cardiff and Odense

Same batch of agars and disks

Inoculum (1 McF)

Incubation time (24 h)

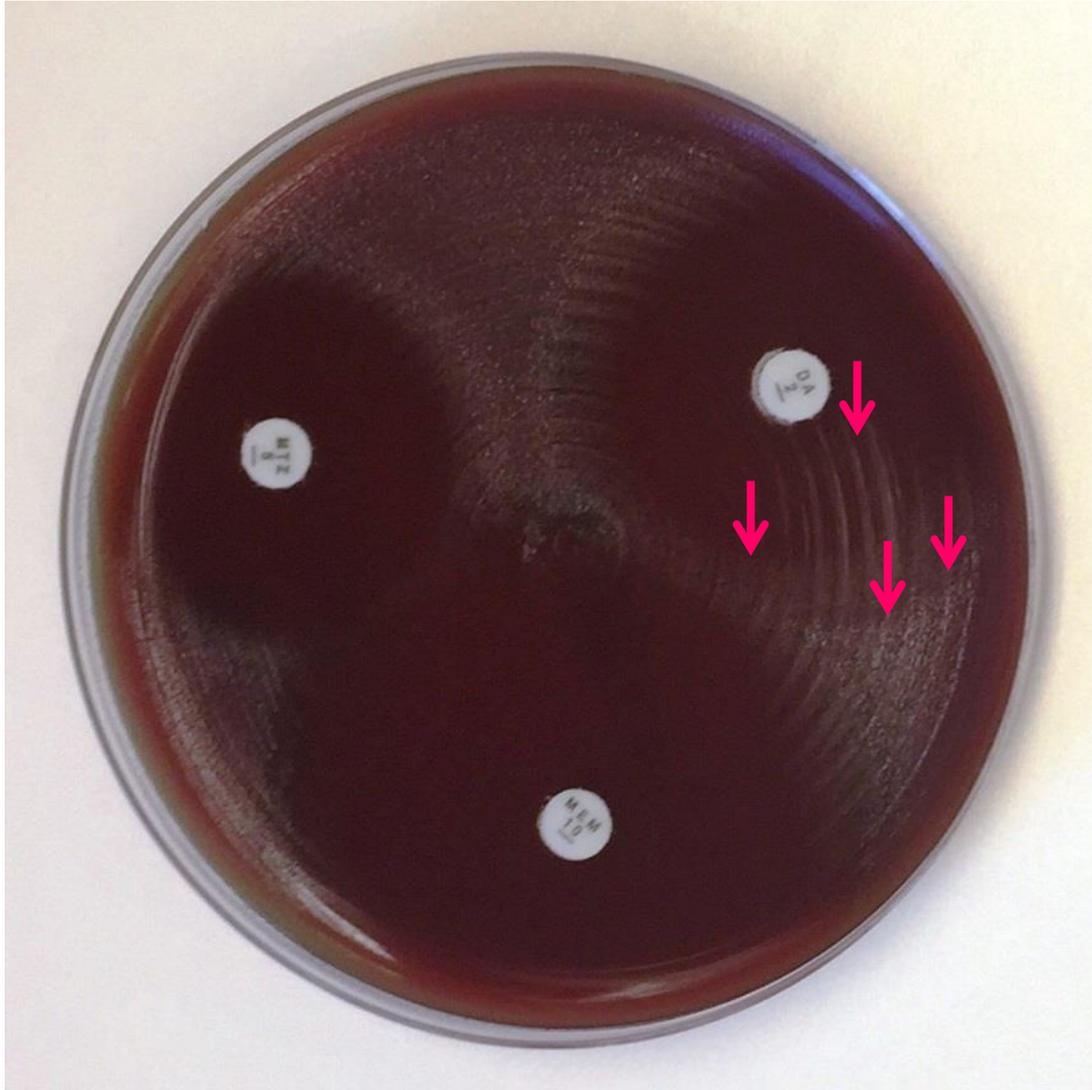
Temperature (37°C)

Atmosphere (80% N₂, 10% CO₂ and 10 H₂)

We need to take "Baby steps"



Reading is a big issue



Other possible variables

- Zones are very big and borders diffuse – could it improve by manipulating the **agar depth!**

-> decreased agar depth (3 mm): BIG zones

-> increased agar depth (4.5 mm): smaller zones

The "dilution" factor: 4-5 mm difference!?!?!

Other possible variables

- Agar depth!
- From fridge or room temperature (for how long)
- Plates packed in plastic or left unpacked?
- Homemade/ready to use plates
- Plates from different manufacturers
- Cabinet, jar gas-pack or Anoxomat

We need to investigate all these variables!

We are optimistic!

With a standard operating procedure:

Reading the outer-most-outer zone diameter we all got calibrated in Växjö

Pilot study: Same results
with *Clostridium difficile*
– Just a single sharp zone to read

