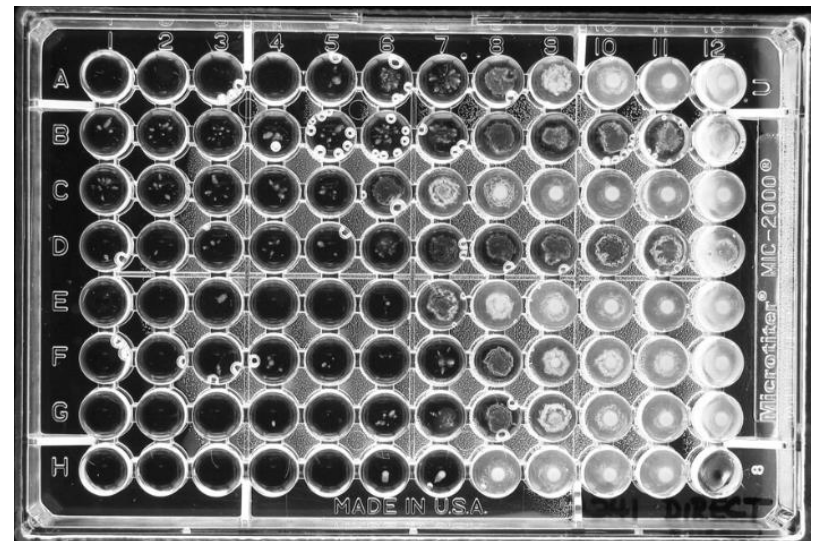
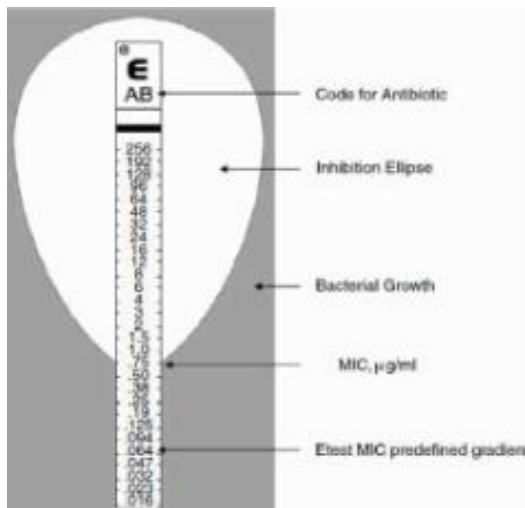


# Colistin

## Gradient vs Mikrolahjenduse meetod

Back to basics



# Probleem?

**EUCAST warnings concerning antimicrobial susceptibility testing products or procedures.**

Juuli 2016

TZP ja Colistin ei vasta standarditele

Gradient testid alahindavad MIC väärtust ja resistentsust

# Uuring

Original article

Antimicrobial susceptibility testing of colistin – evaluation of seven commercial MIC products against standard broth microdilution for *Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, and *Acinetobacter* spp.

E. Matuschek\*, J. Åhman, C. Webster, G. Kahlmeter

*EUCAST Development Laboratory, Växjö, Sweden*

Mikrolahjenduse meetod:

- Sensititre SEMPA (Thermo Fisher Scientific)
- MICRONAUT-S (MELRIN Diagnostika)
- MICRONAUT MIC-Strip
- SensiTest (Liofilchem)
- UMIC (Biocentric)

Gradient testid:

- E-test (Biomereux)
- MIC Test Strip (Liofilchem)

# Uuringu tulemused

- Arvutasad välja EA ja categorical agreement
- For **Sensititre** and the two **MICRONAUT** products, the tests performed well for all species investigated (EA **91-100%** depending on species).
- The results were poorer for **SensiTest** and **UMIC**, with EA of **88%** (51/58, CI 77-95%) and 82% (61/74, CI 72-89%), respectively.  
with poorer performance (**EA <80%**) for **Acinetobacter** spp.
- Gradient tests poor performance. Gradient tests generally underestimated MICs, significant number of very major errors, that is **false susceptible** results

# Järeldused

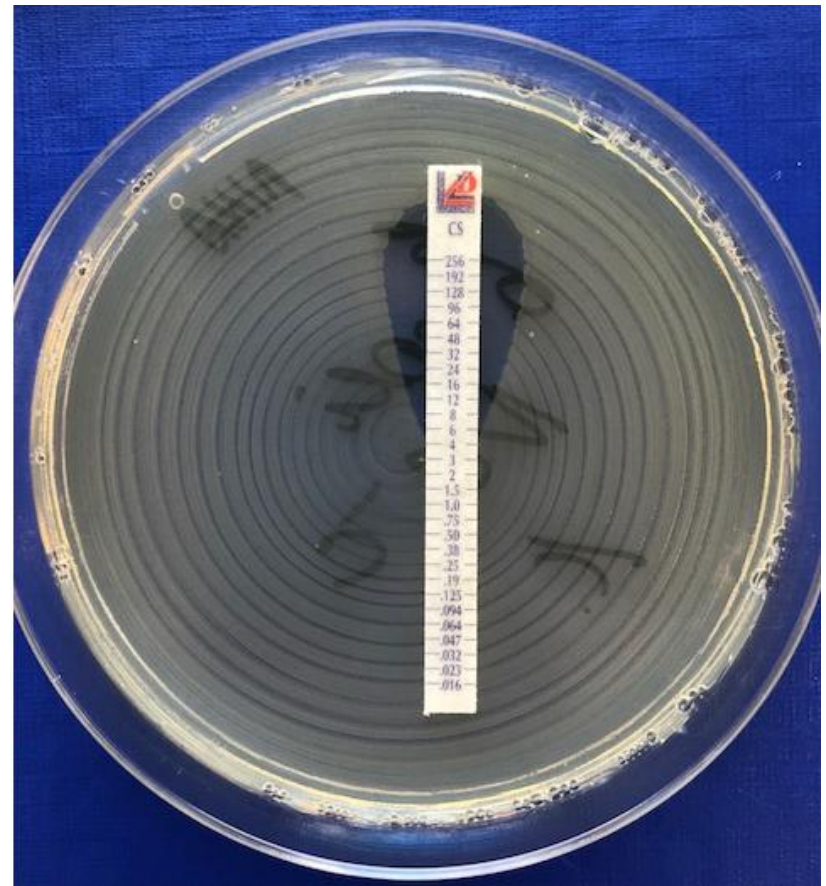
- Diskide ja gradient testide asemel kasutada BMD (EUCAST)
- Gradient testid alahindavad MIC väärtust ja resistentsust
- Semi-automated meetoditel CS ATS nõrgad tulemused
- CS QC teostada tüvedega:
  - *E. coli* ATCC 25922
  - *P. aeruginosa* ATCC 27853
  - *E. coli* NCTC 13846

# IVKH kogemus. Liofilchem

Mõlemad on sisekontrolli edukalt läbinud..?!



MIC 0,25 S



MIC 6,0 R

Vale resistentne?

Täna  
Teiste laborite kogemused?