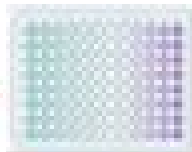


# Methods of antimicrobial susceptibility testing

## Phenotypic methods

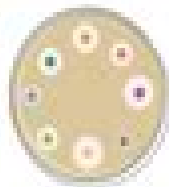
*Constrained by bacterial growth time*

Dilution



48 h

Diffusion



48 h

Gradient test



48 h

Chromogenic media



24 h

Automated devices



> 20 h

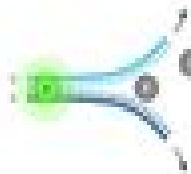
## Molecular-based methods

PCR



several h

qPCR



Cycle sequencing



24 - 48 h

NGS



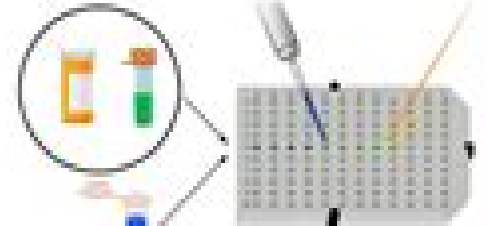
several days

*\* estimated time depend on a sample analysed  
(clinical specimen vs. isolated bacterial culture)*

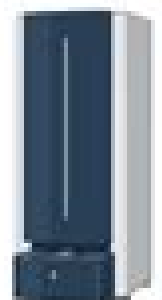
## Mass spectrometry

MALDI-TOF MS

Incubation (antibiotic + sample)



Matrix



several h

*\* estimated time depend on a sample analysed  
(clinical specimen vs. isolated bacterial culture)*

# Manual On Antimicrobial Susceptibility Testing

**AW Rasmussen**



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