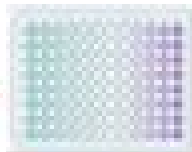


Methods of antimicrobial susceptibility testing

Phenotypic methods

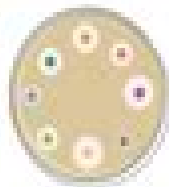
Constrained by bacterial growth time

Dilution



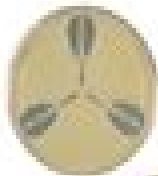
48 h

Diffusion



48 h

Gradient test



48 h

Chromogenic media



24 h

Automated devices



> 20 h

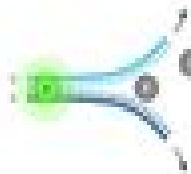
Molecular-based methods

PCR



several h

qPCR



Cycle sequencing



24 - 48 h

NGS



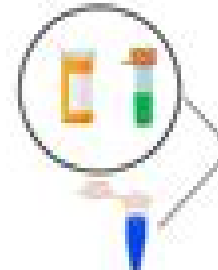
several days

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

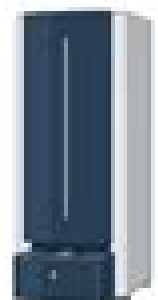
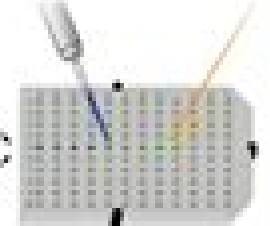
Mass spectrometry

MALDI-TOF MS

Incubation (antibiotic + sample)



Matrix



several h

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

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D Keegan



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