

Result in 2-8 h

mariAST



24h

48h

72h

Current process takes days

Pure culture

PCR,
Mass Spectrometry

AST
by culture

mariAST



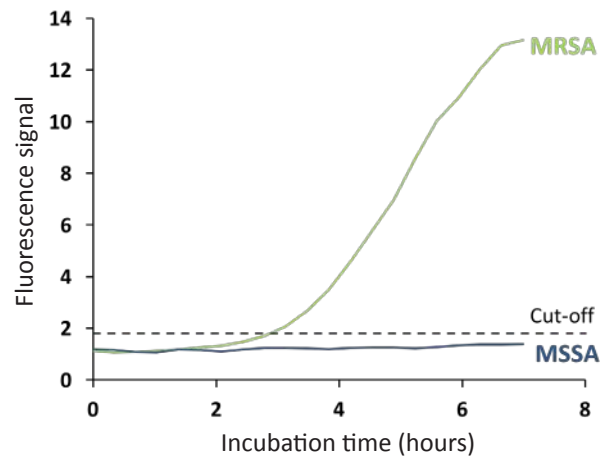
MRSA (RUO)

Phenotypic AST without pure culture

The most advanced platform for rapid resistance testing

mariAST® combines in-well culture and specific bacterial detection. mariAST® measures species-specific bacterial growth in real-time.

The process yields an ID in only 20 minutes for strong positive inocula. Resistance results are reported in just hours after sampling.



The signal development (growth) in the presence of cefoxitin break-point concentration 4 mg/L.



Directly from clinical sample



Automated analysis



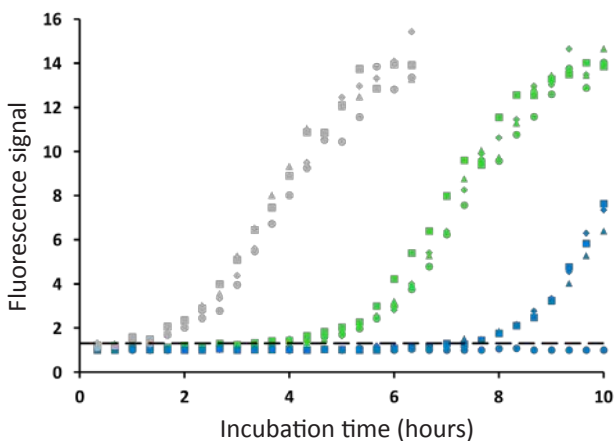
Break-point resistance result within hours



mariAST



- Enables rapid phenotypic AST with real-time detection
- Allows testing of antibiotic resistance directly from polymicrobial clinical samples
- Combines bacterial in-well culture and specific antigen detection with wash-free fluoroimmunoassay
- Applies fully automated and field proven TPX technology



Fluorescence signals of three different initial *S. aureus* inocula:
240 CFU/well, 30 CFU/well, 1 CFU/well.

Antikainen P. et al. NSCMID 2016, Rovaniemi, Finland. Poster #P-04.

MRSA sensitivity of 1 CFU

References:

Stenholm T. et al. (2013) Scand J Infect Dis. 45:922-923.

Antikainen P. et al. 27th ECCMID 2017, Vienna, Austria. Abstract #4771 and poster #P0172.