quick**MIC**®

Ultra-rapid phenotypic AST

Speeding up blood diagnostics
for the treatment of sepsis

QuickMIC® is an ultra-rapid system for phenotypic **antibiotic susceptibility testing**

Our product is designed to offer personalised treatment options for sepsis patients, thereby contributing to increased survival, reduced healthcare costs and lower antibiotic resistance.

- Reports precise MIC values in 2-4 hours
- Directly from positive blood cultures
- Antibiotic panels for GN bacteria

Instruments can be stacked for increased capacity, making QuickMIC **suitable for small and larger laboratories.**

QuickMIC determines MIC values directly from positive blood cultures **in 2-4 hours.**

The power of precise MIC values **for treating sepsis patients**

Precise MIC values allow for more specific PK/PD targeted antibiotic dosing, resulting in more informed treatment decisions for the benefit of sepsis patients. QuickMIC provides precise MIC results with high resolution and accuracy, which has the potential to help the clinical team target personalised blood antibiotic concentrations.

One instrument analyses one patient sample against a panel of **12 antibiotics per run.**

The analysis software delivers automated readouts that provide **clinically actionable results.**

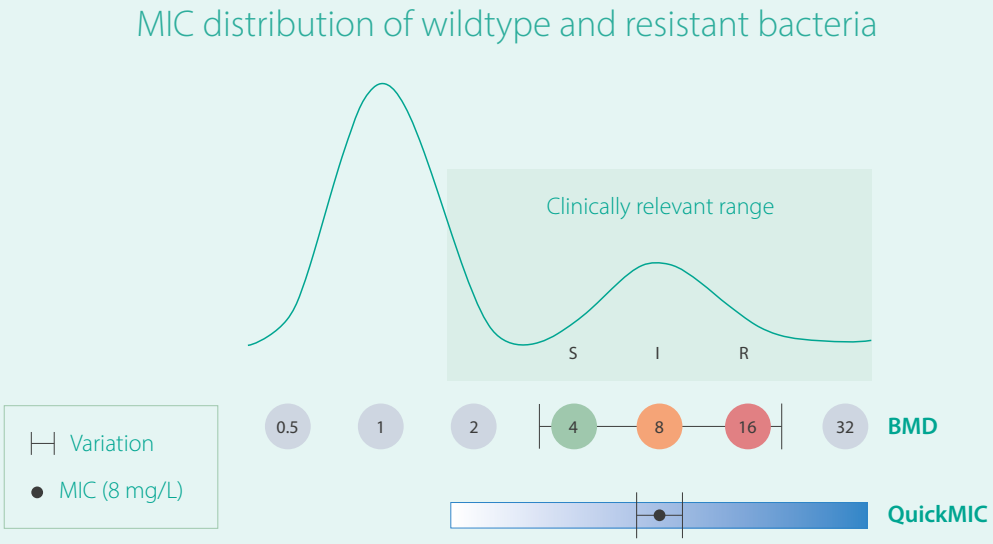
References

Malmberg et al., Front. Cell. Infect. Microbiol., 2022; 12:758262
Wistrand-Yuen et al., mBio, 2020; 11(1):e03109-19

The technology behind QuickMIC provides **precise MIC values in record time**

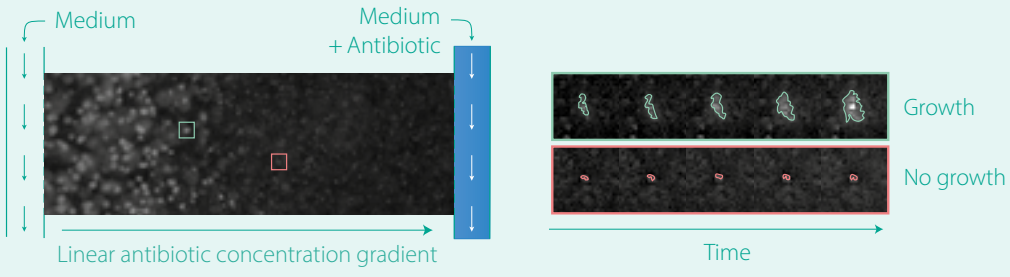
Linear concentration gradient for increased resolution and reproducibility

Our unique technology utilises a continuous linear antibiotic concentration gradient to ensure high sensitivity around clinical breakpoints (SIR). Narrowing the variability range allows for higher resolution, precision and accuracy than methods based on 2-fold broth microdilution (BMD).



Visualisation of bacterial microcolony growth in real-time

Bacteria from positive blood cultures are exposed to a linear antibiotic concentration gradient and the growth rate of microcolonies is monitored over time. The high sensitivity of the system combined with a custom analysis software allows QuickMIC to deliver precise MIC values within 2-4 hours.



Our mission is to supply our customers with high-quality products that are conceptually elegant, technologically advanced, **but easy to use.**

Access our resource library today **and get a free copy of our eBook!**

Next-generation antimicrobial susceptibility testing - what's delaying the revolution?

Scan the QR code or visit gradientech.se/resources

gradientech

Gradientech AB (publ). Uppsala Science Park, SE-751 83 Uppsala, Sweden.
Copyright © 2023 Gradientech AB. All rights reserved. Gradientech and QuickMIC are registered trademarks or trademarks of Gradientech AB.
The QuickMIC system and its Gram-negative panel are CE-IVD marked. The QuickMIC system is not FDA 510(k)-cleared and not available in the U.S.
The QuickMIC system has received Breakthrough Device Designation from the U.S. Food and Drug Administration (FDA).

MAR024-05