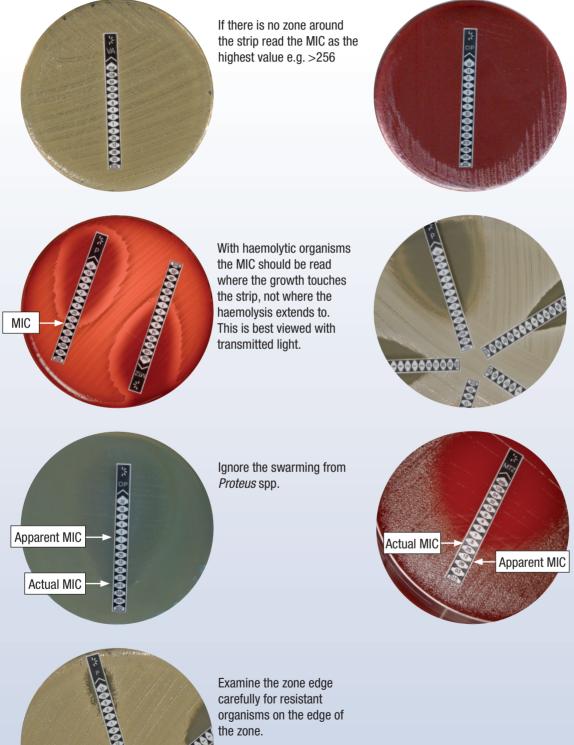


Antimicrobial Susceptibility Testing

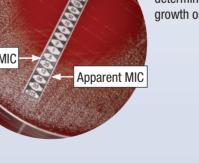
M.I.C.Evaluator[™] (M.I.C.E.) INTERPRETATION GUIDE

Organism Effects

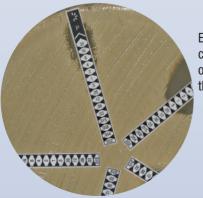


If the zone is so big that it doesn't touch the strip then read the MIC as less than the lowest value on the strip e.g. < 0.002

B-lactamase activity in Staphylococci can be detected by examining the zone edge. A hazy shelving zone edge indicates a β -lactamase negative strain (see left); a hard edge indicates B-lactamase positive strain.

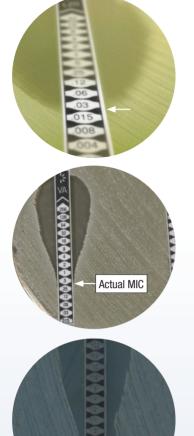


Reflected light is required to determine end points with hazy growth or pin point colonies.



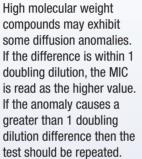


Antibiotic Related Effects

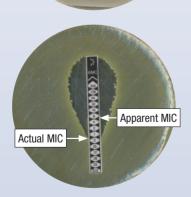


Bacteriostatic compounds give diffuse hazy zone edges. These compounds should be read at 80% of the inhibition.

Dip effects are sometimes evident. ALWAYS read down the dip to where the growth touches the strip.



Do not move the strip if it is placed incorrectly. Antibiotic starts to release immediately so distorted zones and inaccurate MICs will be obtained.



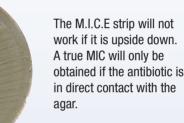
000000

Tracking up the strip can occur if the plate is too wet. Ignore this thin line of growth and read the MIC where the growth would naturally touch the strip.



Bactericidal compounds give sharp zone edges. The MIC should be read where the growth touches the strip.

Handling/Application Errors





Occasionally the growth touches the strip at different levels. This can be caused by moving the strip during application, or imperfections in the agar causing uneven diffusion of the compound. The MIC is read as the higher value. If the difference is greater than 1 doubling dilution then repeat the test.

DEDICATED TO MICROBIOLOGY

Oxoid, Wade Road, Basingstoke, Hants, RG24 8PW, UK. Tel: +44 (0) 1256 841144 Fax: +44 (0) 1256 329728 Email: oxoid@thermofisher.com wwww.oxoid.com www.thermofisher.com

Part of Thermo Fisher Scientific

© 2010, Oxoid Ltd.; copyrights to photographs held separately; contact Oxoid Ltd for details. Photographs may not be extracted or reproduced in any way. Folio no: 1142/MS/02/10

50%