Multicenter Evaluation of Erythromycin MIC Results for _E. coli_ Using MicroScan Dried Gram Negative MIC Panels


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INTRODUCTION

A multicenter study was performed to evaluate the performance of a MicroScan Dried Gram Negative MIC panel with erythromycin using _Escherichia coli_ isolates with EUCAST interpretive breakpoints.

METHODS

Panels

- Frozen reference and MicroScan Dried Gram Negative MIC panels contained two-fold doubling dilutions of erythromycin 0.016 - 32 µg/ml in cation-adjusted Mueller-Hinton broth.
- Reference panels were prepared and frozen following CLSI/SIDO recommendations.

Reproducibility

- Reproducibility among the three sites were greater than 85% for all read methods for both the turbidity and Prompt inoculation methods.

RESULTS

Major Errors ($>4$) were seen when using a Clinical System, WalkAway, and autoSCAN-4 algorithm.

CONCLUSION

This multicenter study showed that erythromycin MIC results for _Escherichia coli_ obtained with the MSDFG panel correlate well with MICs obtained using frozen reference panels using EUCAST interpretive criteria. This study was supported by Tetraphase Pharmaceuticals Inc.