

Antimicrobial Susceptibility Testing of *Helicobacter pylori* Determined by Microdilution Method Using a New Medium

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Abstract: Antibiotic susceptibility testing of *Helicobacter pylori* isolates was performed by broth microdilution method with MegaCell™ RPMI-1640 Medium (SIGMA). Fifty five clinical isolates of *H. pylori* were tested against metronidazole, tinidazole, amoxicillin, and clarithromycin. The results were compared to those obtained by standard agar dilution method. The microdilution method performed with new medium, showed excellent correlation with agar dilution results, with 100% agreement for metronidazole, 96.3% for amoxicillin, 90.7% for clarithromycin, and 92.8% for tinidazole. MICs determined by proposed method were highly reproducible: replicate results were variable within one-two-fold dilution by using different inocula and different batches of medium.

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