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Tigecycline (Tygacil®) Calibration and Acceptable Ranges of Zone Sizes with Reference Strains

Calibrations 2007

Disc Potency 15 µg

Organisms Tested

Staphylococci, Enterobacteriaceae, *Pseudomonas sp.*, *Branhamella catarrhalis*, Enterococci, Streptococci, *Plesiomonas sp.*, *Chryseobacterium sp.*, *Aeromonas sp.*, *Acinetobacter sp.*

Susceptible MIC ≤ 1mg/L

Reference Strains 2007 - tigecycline

Acceptable range of annular radii obtained with reference strains recorded with tigecycline 15 µg (TGC 15) discs.

<i>Escherichia coli</i> ACM 5185	9.7 to 12.6 mm
<i>Streptococcus pneumoniae</i> ACM 5191	9.7 to 12.6 mm
<i>Staphylococcus aureus</i> ACM 5190	10.3 to 13.2 mm
<i>Enterococcus faecalis</i> ACM 5184	6.6 to 9.5 mm

Modifications to the Recommendations for Surrogate testing of Fluoroquinolones used in Veterinary medicine

In 4th Edition of the CDS Manual ciprofloxacin was recommended as the surrogate disc for testing enrofloxacin and orbifloxacin while moxifloxacin was the surrogate for marbofloxacin. Prompted by feedback from the veterinary laboratories we undertook further studies that showed the activities of the three veterinary oxyquinolones more closely parallel that of moxifloxacin. Although orbifloxacin was the least active of the oxyquinolones it resembled moxifloxacin in having far less activity against *P. aeruginosa* than ciprofloxacin but reasonable activity against *S. aureus*. Against the 4 test species enrofloxacin activity was identical to that of moxifloxacin. The comparative activity of the 4 oxyquinolones is shown in the table below.

Organisms	Ciprofloxacin	Moxifloxacin	Enrofloxacin	Orbifloxacin
<i>S. aureus</i> ATCC 29213	0.25	0.06	0.06	1
<i>E. faecalis</i> ATCC 29212	2	0.5	0.5	4
<i>P. aeruginosa</i> ATCC 27853	0.5	2	2	8
<i>E. coli</i> ATCC 25922	0.016	0.03	0.03	0.12

Table1: Comparative MIC in mg/L compiled using published and CDS Laboratory data.

Conclusion. It is recommended that moxifloxacin 2.5 µg disc be used for surrogate testing of enrofloxacin, orbifloxacin and marbofloxacin in veterinary laboratories.

