

## Epidemiological cut-off values for *Flavobacterium psychrophilum* MIC data generated by a standard test protocol - DTU Orbit (08/11/2017)

### Epidemiological cut-off values for *Flavobacterium psychrophilum* MIC data generated by a standard test protocol

Epidemiological cut-off values were developed for application to antibiotic susceptibility data for *Flavobacterium psychrophilum* generated by standard CLSI test protocols. The MIC values for ten antibiotic agents against *Flavobacterium psychrophilum* were determined in two laboratories. For five antibiotics, the data sets were of sufficient quality and quantity to allow the setting of valid epidemiological cut-off values. For these agents, the cut-off values, calculated by the application of the statistically based normalized resistance interpretation method, were  $\leq 16$  mg L<sup>-1</sup> for erythromycin,  $\leq 2$  mg L<sup>-1</sup> for florfenicol,  $\leq 0.025$  mg L<sup>-1</sup> for oxolinic acid (OXO),  $\leq 0.125$  mg L<sup>-1</sup> for oxytetracycline and  $\leq 20$  (1/19) mg L<sup>-1</sup> for trimethoprim/sulphamethoxazole. For ampicillin and amoxicillin, the majority of putative wild-type observations were 'off scale', and therefore, statistically valid cut-off values could not be calculated. For ormetoprim/sulphadimethoxine, the data were excessively diverse and a valid cut-off could not be determined. For flumequine, the putative wild-type data were extremely skewed, and for enrofloxacin, there was inadequate separation in the MIC values for putative wild-type and non-wild-type strains. It is argued that the adoption of OXO as a class representative for the quinolone group would be a valid method of determining susceptibilities to these agents.

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