

AM-02

Comparison of MRS medium and LSM medium for antimicrobial activity of tetracycline and ciprofloxacin in *Lactobacillus species* isolates.

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Lactobacilli are members of the normal microflora in swine intestines. In this study, a total of eleven *Lactobacillus* species were identified from swine intestines by the PCR-16S rRNA gene sequencing. The most predominant species found in swine guts was *Lactobacillus reuteri*. Profiles of Gram stain, catalase test, motility test and oxidase test were also determined. Both of MRS and LSM medium were determined the MIC of tetracycline and ciprofloxacin by broth microdilution method in *Lactobacillus species*. All isolates, after MIC analysis, were significant high antimicrobial activity which were not distinct MIC₅₀ and MIC₉₀ values of tetracycline for MRS and LSM medium that were lower MIC₅₀ and MIC₉₀ values of ciprofloxacin in MRS medium test. Our results indicate that not all were interfere effects for MRS medium and LSM medium between the two antimicrobial agents in *Lactobacillus species* isolates.