CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY

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Project Number
S1412

Project Title
Treating Pasteurella multocida

Abstract

Objectives/Goals
To determine which antibiotic treats the disease pasteurella multocida most effectively.

Methods/Materials
Antibiotic disks- oxacillin, clindamycin, ciprofloxacin, tetracycline, penicillin, augmentin, and septra. Other materials used were sterile swabs, saline solution, sheep blood agar plates, and an incubator.

Results
Top three antibiotics that worked best were ciprofloxacin(13.2mm kill zone), Augmentin and Penicillin(both 13mm kill zone), and Clindamycin and Penicillin did not work at all.

Conclusions/Discussion
Augmentin was the best antibiotic since it is cheaper than ciprofloxacin and it also can be used on people of all ages, unlike ciprofloxacin, which can cause detrimental effects to children under the ages of 18.

Summary Statement
We are determining which antibiotic treats pasteurella multocida best.

Help Received
Tracy Langenfeld- Lab Technician at Memorial Hospital provided incubator and Dr. Frank Edwards, who provided antibiotic disks. Also, Dr. Newbrough and Dr. Gehlawat helped with research.