

Column E Explanation: Miss. State Univ. 2015-16

Registration Number: 65-R-0002

A. Protocol Number: 15-042

NOV 14 2016

1. Number of animals used in the study: 8 (2 in pain category C; 6, in E)
2. Species of animals used in the study: *Meriones unguiculatus*
3. Explain the procedure producing pain and/or distress:

Listeria monocytogenes was administered orally to gerbils to verify results obtained in a previous pilot study. Following inoculation, the animals were expected to experience gastrointestinal distress. Through the duration of the 7 day study, gerbils were observed three times daily, and their clinical signs scored. Most gerbils experienced moderate, but transient, gastrointestinal distress for 24 hours. All were euthanized at the end of the study.

4. Explain why anesthetics, analgesics and tranquilizers could not be used.

Analgesics have been reported to modulate the response to infection. Since the purpose of the pilot study is to determine the appropriate dose based upon the response to infection, analgesics would confound the study.

5. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102): NA

B. Protocol Number: 16-051

1. Number of animals used in the study: 12 (3 in pain category C; 9, in E)
2. Species of animals used in the study: *Bos taurus*
3. Explain the procedure producing pain and/or distress:

Mannheimia hemolytica at different concentrations was administered intratracheally to three groups of three cattle and three cattle served as negative controls. Moderate respiratory disease was induced. Animals were observed every 6 hours following inoculation and were euthanized 5 days after inoculation.

4. Explain why anesthetics, analgesics and tranquilizers could not be used.

The need to establish clinical disease resulting from specific concentrations of *M. hemolytica* required that no drugs which might affect the development or clinical expression of the disease could be used. Inoculation occurred using local anesthesia.

5. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102): NA