

Optional Column E Explanation Form

55R0005

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Name, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: **55-R-0005**
2. Number 2 of animals used in this study
3. Species (common name) Dogs of animals used in this study
4. Explain the procedure producing pain and/or distress.

Infection with Babesia canis and Babesia gibsoni

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results (For Federally mandated testing, see question 6 below)

Animals used to provide infected blood for preparation of antigens used to diagnose infection in other dogs. Dogs were euthanized prior to developing severe clinical signs.

6. 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):

Agency N/A CFR N/A

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1. Registration Number: **55-R-0005**
2. Number 20 of animals used in this study
3. Species (common name) Bovine -neonatal calves of animals used in this study
4. Explain the procedure producing pain and/or distress.

Neonatal calves are orally inoculated with 10 oocysts of Cryptosporidium parvum in order to produce a mild diarrhea to study specific treatments to enhance repair of the intestinal damage done by this organism.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results (For Federally mandated testing, see question 6 below)

C. parvum is the most common cause of diarrhea in the neonatal bovine worldwide and is a major cause of mortality in young calves. In order to evaluate the affects of our treatments in reducing diarrhea and the damage to ileal tissue, no therapeutic agents should be given to the animal to alleviate pain, which if present, is minimal. This would obscure the purpose of this study by altering the disease state significantly and may in fact increase the severity of the disease..

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Agency N/A CFR N/A