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**UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

**Annual Report of Research Facility
Column E Explanation**

(TYPE OR PRINT)

This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.36). Failure to report according to the regulations can result in an order to cease and desist.

1. REGISTRATION NUMBER

93-R-0435

2. Research Facility Headquarters address

University of California, Los Angeles
Division of Laboratory Animal Medicine
10833 Le Conte Ave, Suite # 16-222 CHS
Los Angeles, CA 90095

3. Number of animals used in the study.

36

**4. Species (common name) of animals used
in the study.**

Hamsters

5. Explain the procedure producing pain and distress.

Clostridium difficile will be administered to hamsters via oral gavage. Pain/discomfort induced by this infectious agent will not be alleviated with medications.

6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.

Animals will not be given any kind of pain reliever because the responses we measure in these experiments include the release of pro-inflammatory cytokines and chemokines from the intestinal mucosa as well as the degree of the small intestinal and colonic mucosal ulceration.

Pain relief will affect the response we will measure. Literature justification was the same as described below:

Lab Anim. 2000 Oct;34(4):423-9 Volker D, Bate M, Gentle R, Garg M.

Oral buprenorphine is anti-inflammatory and modulates the pathogenesis of streptococcal cell wall polymer induced arthritis in the Lew/SSN rat.

Most researchers may fear the inclusion buprenorphine may interfere colitis experiments. At this moment, we would rather not use it.

PLoS One. 2013;8(1):e54040. doi: 10.1371/journal.pone.0054040. Epub 2013 Jan 18.

Morphine induces bacterial translocation in mice by compromising intestinal barrier function in a TLR dependent manner.