

(b) (7)(F)

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, 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.

PLAGUE and MONKEYPOX CHALLENGE

1. Registration Number: 10-F-1008
2. -**Plague challenge** - Number of animals used in this study. 40 + 15 + 80 + 30 + 37 = 202.
 -**Monkeypox challenge** - Number of animals used in this study. 7
3. -Plague challenge - Species of animals used in the study. deer mice, black-tailed/Gunnison/white-tailed prairie dogs, grasshopper mice
 -Monkeypox challenge - Species of animals used in the study Gambian rat

4. Explain the procedure producing pain and/or distress.

Plague challenge: Animals were vaccinated against plague or received a placebo and then challenged with virulent plague to evaluate vaccine efficiency.

Monkeypox challenge: Animals are inoculated with monkeypox virus in order to study pathogenesis.

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 item 6 below)

Plague challenge: The purpose of this research is to develop a protective vaccine for both the prairie dog and the ferret. The end point for the experiment is discerning whether or not the control and treated animals have developed the signs and symptoms of the disease and/or if the vaccine has effectively prevented the disease from occurring. Therefore it is critical for the disease process to occur without the confounding effects of tranquilizing, analgesic or anesthetic drugs. Animals were euthanized as soon as the signs and symptoms of an infection were observed and confirmed.

Monkeypox challenge: No other methods exist to study pathogenesis in animals. The specific aims are 1) to determine the pathogenesis, persistence, tissue tropism, and shedding of MPXV in laboratory strains of mice and wild rodents and 2) to identify MPXV gene(s) that account for the differences in virulence between the two strains of MPXV

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 _____ CFR _____