OMB APPROVED
0579-0036

Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2021

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

51-F-0019

2. Research Facility Headquarters address

U.S. Army Combat Capabilities Development Command Chemical Biological Center
ATTN: FCDD-CB (Institutional Official)
8198 Blackhawk Road
Aberdeen Proving Ground, MD 21010-5424
Telephone: 410-436-5001

3. Number of animals used in the study.

8

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

Guinea Pigs

5. Explain the procedure producing pain and distress.

The potency of a commercially available nicotinic receptor agonist was compared to that locally synthesized using solid phase peptide synthesis. Both versions were intravenously administered to eight (8) hairless guinea pigs to determine the 24-hour median lethal dose (LD50). Toxic signs experienced by the guinea pigs were tremors, convulsions, and muscle fasciculations.

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 did not receive any post-procedure analgesics to avoid skewing the results and artificially influencing the subsequent use of the data from this study.

7. 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):

Not Applicable

Agency	CFR

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Guinea Pigs

5. Explain the procedure producing pain and distress.

Seven (7) guinea pigs were intravenously exposed to a high dose of VX. The experiment was conducted to identify biomarkers of VX exposure using blood and interstitial fluid collected from hairless guinea pigs. The guinea pigs experienced moderate toxic signs such as ataxia, tremors, splayed legs, lacrimation, and salivation.

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.

Any attempt to alleviate the pain/distress associated with exposure to VX would have confounded the investigator's attempt to identify biomarkers of exposure.

7. 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):

Not Applicable

Agency	CFR