

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average .5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**OMB APPROVED**  
0579-0036

Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

**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.

<b>1. REGISTRATION NUMBER</b> 51-G-0001	<b>2. Research Facility Headquarters address</b> Northeast Area Beltsville Location 10300 Baltimore Avenue Beltsville, MD 20705
<b>3. Number of animals used in the study.</b>	<b>4. Species (common name) of animals used in the study.</b> Mouse
<b>5. Explain the procedure producing pain and distress.</b>	
<b>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.</b>	
<b>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):</b>	
<b>Agency</b>	<b>CFR</b>

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<b>3. Number of animals used in the study.</b> 688	<b>4. Species (common name) of animals used in the study.</b> Chickens	
<b>5. Explain the procedure producing pain and distress.</b> Chickens are infected with live Eimeria oocysts with an ultimate goal to develop novel treatment modality.		
<b>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.</b> Anesthetics, analgesics, sedatives, and tranquilizers are contraindicated in this protocol because they would impact primary and secondary immune responses that would otherwise limit multiplication of the parasite. Treatment with anesthetics or analgesics would affect not only the natural infection, but also immune response to the organism thereby interfering with the natural resistance to infection.		
<b>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):</b>		
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<b>3. Number of animals used in the study.</b>  399	<b>4. Species (common name) of animals used in the study.</b>  Chickens	
<b>5. Explain the procedure producing pain and distress.</b> Chickens are infected with live Eimeria with an ultimate goal to develop novel treatment modality.		
<b>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.</b> The use of anesthetics or sedatives is not appropriate for this protocol for multiple reasons. Eimeria generally produces mild symptoms. As the natural infection of Eimeria is ubiquitous in the field condition, we are trying to mimic those conditions. Additionally, the strains and doses of Eimeria maxima that are being used for the trials are attenuated and medium doses. In our experiences with Eimeria infections, no significant clinical signs were observed but the use of anesthetics and sedatives could effect blood and tissue samples.		
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<b>3. Number of animals used in the study.</b>  140	<b>4. Species (common name) of animals used in the study.</b> Chickens	
<b>5. Explain the procedure producing pain and distress.</b> Chickens are infected with live Eimeria oocysts with an ultimate goal to develop novel treatment modality.		
<b>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.</b> The chickens infected with Eimeria oocysts may experience transient reduced weight gain and inappetence between days 4-7 post-inoculation due to multiplication of the parasite in intestinal tissue. Anesthetics, analgesics, sedatives, and tranquilizers are contraindicated in this protocol because they would impact primary and secondary immune responses that would otherwise limit multiplication of the parasite.		
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