

Column E Explanation

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.

1. Registration Number: 14-R-0022

2. Number 8 of animals used in this study.

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

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

Electrical activity of neurons in the inferior colliculus is measured longitudinally in awake, conscious rabbits. The animal's torso is restrained during measurements for two hours using a Velcro jacket and the head is fixed into position by means of a brass head post which has been previously (30days) surgically implanted. Following head post placement (30day), a craniotomy is performed and sealed to allow for the future placement of an electrode. Although the animal is given anesthesia as well as analgesia for the surgical preparations (head post, craniotomy), is trained to accept the restraint procedure during neuronal recordings, and a local anesthetic is used when the electrodes are positioned, the potential for distress is unavoidable during restraint and repeated measurements.

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)

There is no alternative to performing neuronal measurements in an awake animal without withholding agents that would sedate or tranquilize them. The animals acclimatize well to the restraint and electrode measurement procedures and do not appear distressed nor uncomfortable during and after repeated measurements.

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): NONE

Agency _____ CFR _____