



## Inspection Report

Colorado State University  
203 Administration 2001 Campus Delivery  
Fort Collins, CO 80523

Customer ID: 1195  
Certificate: 84-R-0003  
Site: 001  
COLORADO STATE UNIVERSITY

Type: ROUTINE INSPECTION  
Date: 12-DEC-2017

### 2.31(c)(7) REPEAT

#### INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC).

\*\*\*Significant changes regarding the number and use of animals in protocol #15-5602A, involving horses, were not approved by the Institutional Animal Care and Use Committee (IACUC).

The protocol was approved for the use of 30 horses. Five additional horses were added to the study, however the IACUC was not informed of this protocol deviation. A post-approval monitor (PAM) detected the use of the additional horses after the study had been completed.

Additionally, APHIS personnel discovered the following procedures were conducted instead of those approved in the protocol:

- Sedation of 28 horses with detomidine instead of the approved sedation xylazine
- Injection with lidocaine prior to the nerve block instead of application of an approved topical anesthetic (benzocaine)
- The use of hemostats to tap the teeth instead of the approved use of Von Frey filaments or thermal testing for confirmation of local analgesia
- The euthanasia of three horses rather than the approved two horses
- The use of six control horses was not included in the protocol. These horses were sedated but did not receive a mental nerve block prior to the responsiveness testing.

Unapproved significant changes to a protocol can result in unanticipated pain and distress, and put the animal's welfare at risk. All activities involving animals must adhere to those in the IACUC-approved protocols and amendments. This conformance to protocol is necessary to ensure that the IACUC has the authority to assure the proper care and use of animals in research projects. Any significant changes to the approved protocol must be reviewed and approved by the IACUC prior to implementing the changes.

### 2.31(d)(1)(iv)(A)

#### INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC).

\*\*\*In IACUC-approved protocol, 17-7461A, involving procedures in which dogs and cats may experience unrelieved

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Date:  
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pain or distress, no scientific justification was provided for why these activities could not be performed with appropriate sedatives, analgesics or anesthetics.

The protocol stated "For Pain Category E procedures, explain why drugs or other ameliorative treatments cannot be used to fully alleviate pain/distress." The entry provided by the PI was "NA." Facility personnel informed APHIS inspectors that there were no other documents that provided this justification.

Appropriate methods to alleviate potential pain or distress to the animals that is more than slight or momentary are must be provided for the care and well-being of the animals. In the case that the withholding of such sedatives, analgesics, or anesthetics is necessary for the study, the principal investigator must provide scientific justification in writing.

Correct by: From this date forward

This inspection was conducted from 12/12/17-12/14/17 with facility representatives and the exit interview was conducted on 12/15/17 with facility representatives.

### Additional Inspectors

Schnell Michael, Veterinary Medical Officer

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## Species Inspected

Cust No	Cert No	Site	Site Name	Inspection
1195	84-R-0003	001	COLORADO STATE UNIVERSITY	12-DEC-17

Count	Scientific Name	Common Name
000002	<i>Bos taurus</i>	CATTLE / COW / OX / WATUSI
000013	<i>Canis lupus familiaris</i>	DOG ADULT
000039	<i>Capra hircus</i>	DOMESTIC GOAT
000208	<i>Cavia porcellus</i>	DOMESTIC GUINEA PIG
000017	<i>Equus caballus</i>	DOMESTIC HORSE
000034	<i>Felis silvestris catus</i>	CAT ADULT
000002	<i>Lama pacos</i>	ALPACA
000002	<i>Marmota marmota</i>	ALPINE MARMOT
000015	<i>Marmota monax</i>	GROUNDHOG / WOODCHUCK
000004	<i>Muntiacus reevesi</i>	REEVE'S MUNTJAC
000035	<i>Odocoileus virginianus</i>	WHITE-TAILED DEER
000002	<i>Oryctolagus cuniculus</i>	DOMESTIC RABBIT / EUROPEAN RABBIT
000126	<i>Ovis aries aries</i>	SHEEP INCLUDING ALL DOMESTIC BREEDS
000012	<i>Spermophilus brunneus</i>	IDAHO GROUND SQUIRREL
000045	<i>Thoopterus nigrescens</i>	SWIFT FRUIT BAT
<b>000556</b>	<b>Total</b>	