

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 34-R-0025
CUSTOMER NUMBER: 473

FORM APPROVED
OMB NO. 0579-0036

kb

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Northern Biomedical Research Inc
930 W. Sherman Blvd
Muskegon, MI 49441

Telephone: (231)-759-2333

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	17	7	81	0	88
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	28	0	28
9. Non-human Primates	9	4	158	0	162
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and an Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

b6, b7c
[Redacted Signature]

b6, b7c
[Redacted Signature]

DATE SIGNED
Oct 9 2008

23 (OCT 88), which is obsolete.)

OCT 10 2008 *RAZ*

Research Facility Summary of Exceptions 2007-2008
Registration No. 34-R-0025

An exception to the standards and regulations under the Act, involves non-human primate caging during 2004-2005. Wall mounted non-human primate caging was installed in one study room to augment our standard primate housing in 1998, and in two additional study rooms in 2005. The cages provide approximately 4.2 ft² of floor space rather than the 4.3 ft² required for non-human primates between 3 to 10 kg. Cage height is 34.6 inches. The cages slant outward from the bottom and the total volume is greater than 12.0 ft³. Height and volume are both above the required 30 inch height and 10.75 ft³ volume. The guidelines state that innovative primary enclosures not precisely meeting the floor area and height requirements, but that do provide a sufficient volume of space and opportunity to express species typical behavior may be used when approved by the Committee. The cage measurements and a study in which primate behavior (macaques and baboons) was compared between animals housed in caging similar to the ones in question at NBR and those of 4.5 ft² floor space were discussed. The study discovered no behavioral evidence that a 4.0 ft² variant cage was not a suitable substitute for a 4.5 ft² floor area cage. The Animal Care and Use Committee approved the use of the 4.2 ft² floor area, 34.6 inch height and > 12.0 ft³ volume cages for animals in the 3 to 10 kg weight range. A total of 133 cynomolgus monkeys were housed in these cages at various times during the period of October 1, 2007 through September 30, 2008.