The attached form for Interagency Report Controls is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2143.

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

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)

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

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>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.</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.</th>
<th>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.</th>
<th>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 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.)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Hamsters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Rabbits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Non-human Primates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Sheep</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, teaching, 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 approved by the 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.

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

DATE SIGNED

11/17/04
**ANNUAL REPORT OF RESEARCH FACILITY**

**TYPE OR PRINT**

**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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
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<th>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 appropriate anesthetic, analgesic, or tranquilizing drugs were used</th>
<th>F. TOTAL NUMBER OF ANIMALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>12</td>
<td>78</td>
<td>286</td>
<td>364*</td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
<td>45</td>
<td>432</td>
<td>436</td>
<td>477*</td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>96</td>
<td>340</td>
<td>35</td>
<td>512</td>
<td></td>
</tr>
<tr>
<td>7. Hamsters</td>
<td>663</td>
<td>53</td>
<td>2</td>
<td>91</td>
<td></td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>12</td>
<td>72</td>
<td>405</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>9. Non-human Primates</td>
<td>1</td>
<td>36</td>
<td>53</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>10. Sheep</td>
<td>5</td>
<td>37</td>
<td>254</td>
<td>291</td>
<td></td>
</tr>
<tr>
<td>11. Pigs</td>
<td>6</td>
<td>227</td>
<td>721</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td>20</td>
<td>207</td>
<td>765</td>
<td>988</td>
<td></td>
</tr>
<tr>
<td>(goat, horse, cow, llama, donkey)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Other Animals</td>
<td>Chinchilla</td>
<td>223</td>
<td>223</td>
<td>946</td>
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<tr>
<td>Wild Rodents</td>
<td>946</td>
<td>946</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 310 dogs and 412 cats were humane society owned and returned

**ASSURANCE STATEMENTS**

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetics, analgesics, and tranquilizing drugs, prior to, during, and following actual rear teaching, research, surgery, or experimentation were followed by this research facility.

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3) The facility 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 in brief explanation of the exceptions, as well as the specific number of animals affected.

4) The animal 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)

<table>
<thead>
<tr>
<th>NAME &amp; TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11/27/04</td>
</tr>
</tbody>
</table>
## CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number or Animals Being Held for Use in Teaching, Testing, Experiments, Research, or Surgery but Not Yet Used for Such Purposes</th>
<th>C. Number of Animals Upon Which Teaching, Research, Experiments, or Tests Were Conducted Involving No Pain, Distress, or Use of Pain-Relieving Drugs</th>
<th>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 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 Reasons Such Drugs Were Not Used Must Be Affixed to This Report)</th>
<th>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 Reasons Such Drugs Were Not Used Must Be Affixed to This Report)</th>
<th>F. TOTAL NO. OF ANIMALS (Cols. C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Lynx</td>
<td>8</td>
<td>12</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2) Raccoon</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3) Bat</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4) Elk</td>
<td>61</td>
<td>61</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5) Unregulated Species</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6) Mice</td>
<td></td>
<td>16,458</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7) Rats</td>
<td></td>
<td>10,879</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>8) Free Ranging or Captive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9) Poultry/birds</td>
<td>3,098</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10) Raptors</td>
<td>234</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11) Amphibians</td>
<td>2,328</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12) Reptiles</td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13) Fish</td>
<td>15,693</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### 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, teaching, testing, surgery, or experimentation were followed by the research facility.

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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)

<table>
<thead>
<tr>
<th>Signature of C.E.O. or Institutional Official</th>
<th>Name &amp; Title of C.E.O. or Institutional Official (Type or Print)</th>
<th>Date Signed</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Signature]</td>
<td>Richard W. Bianco, Asst. Vice-President</td>
<td>11/23/04</td>
</tr>
</tbody>
</table>

**PART 1 - HEADQUARTERS**
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: 41-R-0005

2. Number 40 of animals used in this study.

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

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

   Procedure: Pigs were challenged oro-nasally with PRRS virus. This virus causes viremia and can cause interstitial pneumonia. The particular strain that we used was particularly mild and no clinical signs were evident, including fever.

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)

   No clinical signs were evident

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):

   Not applicable

   Agency __________________ CFR __________________
Column E Explanation 2004

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: 41-R-0005

2. Number 35 of animals used in this study.

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

4. Explain the procedure producing pain and/or distress.
   
   This laboratory studies staphylococcal, streptococcal, and enterococcal factors that lead to production of toxic shock syndromes or endocarditis. Toxic shock syndromes by definition require hypotension/shock to be present for diagnosis, and thus, for our studies, we must allow progression to at least that point. The end point is failure of rabbits to exhibit escape behavior combined with inability to right themselves. This is particularly important to assess the protective ability of toxoid vaccines we have developed. At that time the animals are euthanized.

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 have been many published studies indicating pain relieving medications are in fact risk factors for development of toxic shock syndromes. Although the exact mechanism underlying the increased risk is unclear, there is evidence to suggest that the toxins have significant effects on the host nervous system, and thus may synergize with pain relieving medications. It is for this reason that we do not administer such medications in certain experiments.

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):

   Not Applicable

   Agency ___________________ CFR ___________________
Column E Explanation

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1. Registration number: 41-R-005

2. Number of animals used in this study: For the time period specified October 1, 2003 – September 30, 2004 - 2 animals.

3. Species used in this study: Rhesus maeaque.

4. Explain the procedures producing pain or distress:

   Recipient animals undergo a potent immunotherapeutic regimen, induction of diabetes with streptozotocin, and three relatively minor surgical procedures. Animals potentially may experience pain, distress, discomfort.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain or distress would interfere with test results:

   Complications are minimized through intense management of each individual animal. The pre- and postoperative phase entails close collaboration with RAR veterinarians in order to deal with any adverse effects arising from pharmacologic agents or surgical procedures. Analgesics and other medications are used but may not be able to completely relieve discomfort and/or distress caused by immunosuppression and diabetes.

   Analgesics, buprenorphine, are administered on a regular basis (every 6 hours) and ibuprofen for the first 48 hours after surgery, followed by administration as needed. Hypoglycemic event are treated with dextrose PO or IV, glucagon IV and insulin and fluids, respectively.

   Since the animals are likely to experience some loss of appetite with immunosuppressive drugs, we have successfully counteracted this with a specialized highly palatable diet and protein supplement. Special attention is paid to enrichment and group housing during immunosuppressive periods to ensure the animal does not experience depression or change in routine.

   The vomiting that has potential to occur after streptozotocin injection has been effectively managed with the addition of Zoferan, a highly recommended pediatric antiemetic. Potential risk for infection is taken very seriously and animals are monitored closely for signs of infection, so that treatment can commence before serious symptoms occur.

6. What if any federal regulations require this procedure?
   Not applicable.
There is one exception to the regulations and standards approved by the IACUC:

The post-operative care program used to temporarily house dogs and pigs after surgery has kennels with approximately 20 square feet of floor space. That space meets the NIH and AWA guidelines for dogs up to 30 kg and pigs up to 50 kg but not over (over 30 kg dogs and pigs weighing between 50 and 100 kg should have 24 square feet). The kennels do have the opportunity for enlargement via the opening of an interconnecting side panel and this is done when a large weight dog or pig is present and the veterinarian’s medical judgment is such that it is considered beneficial. If RAR veterinarians require limited exercise and movement for post-surgical patients, then the animals may be maintained in the 20 sq ft kennels, which is an exception to the standards. In practice, it is uncommon to have dogs over 30 kg in the postoperative care program. Pigs under post-operative care are generally 10-50 kg with an occasional patient weighing between 50-80 kg.
September 15, 2005

Elizabeth Goldentyer, DVM
Regional Director – Animal Care
Eastern Region
920 Main Campus
Drive, Suite 200
Raleigh, NC 27606-5213

Dear Elizabeth,

Upon recommendation of our USDA Veterinary Medical Officer we are submitting the following amendments to the University of Minnesota’s Form 7023, 2004 Annual Report, Registration #41-R-0005.

40 pigs listed as Category E were subsequently placed by the IACUC into Category C because no clinical signs were observed.

Additions:

140 Category C lions
10 Category C cats

I apologize for inadvertently not including these animals on the original report.

Please let me know if you have any questions about this information.

Sincerely,

(b)(6), (b)(7)(C)
**UNITED STATES DEPARTMENT OF AGRICULTURE**
**ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

**ANNUAL REPORT OF RESEARCH FACILITY**
*(TYPE OR PRINT)*

<table>
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<th>F. TOTAL NUMBER OF ANIMALS <em>(COLUMNS C + D + E)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>32</td>
<td>3</td>
<td>332</td>
<td>0</td>
<td>335</td>
</tr>
<tr>
<td>5. Cats</td>
<td>0</td>
<td>0</td>
<td>20</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>1</td>
<td>7</td>
<td>12</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>7. Hamsters</td>
<td>0</td>
<td>5</td>
<td>2</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>4</td>
<td>213</td>
<td>806</td>
<td>0</td>
<td>1019</td>
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<tr>
<td>9. Non-human Primates</td>
<td>6</td>
<td>0</td>
<td>18</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>10. Sheep</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>11. Pigs</td>
<td>123</td>
<td>611</td>
<td>634</td>
<td>0</td>
<td>1245</td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td>Goats</td>
<td>17</td>
<td>0</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Horses</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ASSURANCE STATEMENTS**

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

**DATE SIGNED**

11/02/04
Animals were used in the following Mayo Foundation facilities:

Customer ID and site address:

Customer ID: 542

Mayo Clinic Rochester
200 First Street, S. W.
Rochester, MN 55905
County: Olmsted

Sites:
  Institute Hills Research Facility
  Guggenheim Building
  Alfred Building
  Medical Sciences Building
  Development Project Support Facility

Customer ID: 542

Mayo Clinic Jacksonville
4500 San Pablo Road
Jacksonville, FL 32224
County: Duval

Site:
  Birdsall Building

Customer ID: 542

Mayo Clinic Scottsdale
13400 Shea Blvd.
Scottsdale, AZ 85259
County: Maricopa

Site:
  Johnson Research Building
November 2, 2004

Dr. Elizabeth Goldentyer, Regional Director  
USDA, APHIS, Animal Care  
Eastern Regional Office  
920 Main Campus Drive, Suite 200  
Raleigh, NC 27606-5213

Dear Dr. Goldentyer:

RE: Research Facility Annual Report, Registration 41-R-0006

Enclosed is the “Annual Report of Research Facility” (APHIS Form 7023) form with attachments for the Mayo Foundation (Certificate Number: 41-R-0006, Customer Number: 542). Jonathan J. Oviatt, J.D., who is the Institutional Official for animal use at all Mayo Foundation sites, has signed the form.

The Institutional Animal Care and Use Committee has approved three exceptions to the Animal Welfare Act regulations and standards.

- The IACUC approved an exception to the pig housing guidelines (Guide for the Care and Use of Laboratory Animals) in the Birdsall Building, Mayo Clinic Jacksonville. Up to 12 pigs at between 25-30 kg are housed in 12 square feet of floor space for less than 24 hours.

- The IACUC approved an exception to the pig housing guidelines (Guide for the Care and Use of Laboratory Animals) at the Development Project Support Facility, Mayo Clinic Rochester. Approximately 35 breeding females, each less than 200 kg, are pair housed within a pen. The involved pens provide between 50-64 square feet of floor space. This temporary (60 days or less) pair housing arrangement involves up to three pens in room number 1221.

- The IACUC approved extending the shelf life of guinea pig and nonhuman primate chow from 3 months to 6 months. Currently, LabDiet® and Harlan Teklad® brand diets are used and both have USDA approval for a 6-month shelf life.

Studies involving “death as an endpoint” or LDxx studies were not carried out at Mayo Foundation this past year.
Attending veterinarians at all sites have the authority to ensure that adequate veterinary care is provided. The attending veterinarian at Mayo Clinic Scottsdale has changed this past year and is now [redacted] is a full time veterinarian employed by Mayo Clinic Scottsdale in the Department of Biochemistry. Full time staff veterinarians oversee the Department of Comparative Medicine, which administers all aspects of the animal care and use program at Mayo Foundation.

Sincerely,

[Redacted]

CSF/am
Enclosure
cc: [Redacted]

J. Oviatt
# ANNUAL REPORT OF RESEARCH FACILITY

## TYPE OR PRINT

### UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

### REGISTRATION NO.
41-R-0007

### CUSTOMER NO.
591

### FORM APPROVED
OMB NO. 0579-0036

### HEADQUARTERS RESEARCH FACILITY
Name and Address, as registered with USDA, include Zip Code
MINNEAPOLIS MEDICAL RESEARCH FOUND. INC.
914 SOUTH EIGHT STREET
3RD AND 10TH FLOOR
MINNEAPOLIS, MN 55404

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

#### FACILITY LOCATIONS(sites)
MINNEAPOLIS MEDICAL RESEARCH FOUND., INC.
MINNEAPOLIS, MN 55404

### 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>20</td>
</tr>
<tr>
<td>Cats</td>
<td>20</td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>63</td>
</tr>
<tr>
<td>Hamsters</td>
<td>63</td>
</tr>
<tr>
<td>Rabbits</td>
<td>137</td>
</tr>
<tr>
<td>Non-Human Primates</td>
<td>101</td>
</tr>
<tr>
<td>Sheep</td>
<td>101</td>
</tr>
<tr>
<td>Pigs</td>
<td>137</td>
</tr>
<tr>
<td>Other Farm Animals</td>
<td>1</td>
</tr>
<tr>
<td>Other Animals</td>
<td>1</td>
</tr>
</tbody>
</table>

#### B. Number of animals used by or under control of research facility

<table>
<thead>
<tr>
<th>Number</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.</td>
</tr>
<tr>
<td>63</td>
<td>Conducted involving no pain, distress, or use of pain-relieving drugs.</td>
</tr>
<tr>
<td>137</td>
<td>Conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.</td>
</tr>
<tr>
<td>20</td>
<td>Used in teaching, research, surgery, 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.</td>
</tr>
</tbody>
</table>

### 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, teaching, 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 Institutional Animal Care and Use Committee (IACUC). A summary of all the 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)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

<table>
<thead>
<tr>
<th>SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL</th>
<th>NAME &amp; TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>11/16/2004</td>
</tr>
</tbody>
</table>

APHIS FORM 7023 (Replaces VS Form 18-23 (Oct 88), which is obsolete)

PART 1 - HEADQUARTERS

(AUG 91)
### Annual Report of Research Facility

**1. Certificate Number:** 41-R-0008  
**Customer Number:** 561

3-M Laboratory Animal Research Services  
3M Company  
3M Center / 270-2a-08  
St Paul, MN 55144  
Telephone: (651) -733-1110

### Facility Locations

| Sites | See Attached Listing |

### Report of Animals Used By or Under Control of Research Facility

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>D. Number of animals upon which teaching, research, experiments, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used</th>
<th>E. Number of animals upon which teaching, research, experiments, 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)</th>
<th>F. Total Number of Animals (Columns C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. Dogs | 54 | 5 | 2 | 61 |
| 5. Cats | 457 | 57 | 5 | 519 |
| 8. | 55 | 16 | 2 | 82 |
| 11. | 52 | 16 |

### 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 teaching, 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 excepting 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 must include an 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

**Signature:**  
**Name & Title of O.F.O. or Institutional Official:**  
**Date Signed:** 11/24/94
Column E Explanation

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: 41-R-0008

2. Number of animals used in the study: 5

3. Species (common name) of animals used in the study: Guinea Pigs

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

Guinea pigs were used in the standardized Modified Buehler Sensitization Test procedure. This is a test to assess the sensitization potential of a chemical entity prior to conducting human safety evaluations. The test consists of repeat applications of the chemical to a small area on the skin of guinea pigs. Thereafter, repeat observations are made for any sensitization that is exhibited by erythema (reddening) or edema (swelling) at the test site. The site is scored for dermal reaction on a classic Draize scale. Five animals displayed clinical signs that caused dosing of these animals to cease. One animal displayed an erythema score of 3 (strong erythema, with or without edema). Three animals displayed an erythema score of 2 (moderate, confluent erythema) with a scabs/sores score of 3 (severe, > 50% of test site). One animal displayed an erythema score of 3 with scabs/sores score of 3.

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)

It is considered that the use of analgesics during the testing could be a variable in the final cumulative response. However, the animals did not receive further doses and were removed from the study.

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):

Agency: 

CFR:
Column E Explanation

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: 41-R-0008

2. Number of animals used in the study: 2

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

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

   Beagles received oral or parenteral doses of formulated 3M immune response modifiers (IRM)s and bioactive reference materials to determine the effect on immunomodulation. These systemic studies in dogs aid in pharmacological profiling and help advance viable IRM molecules into human clinical testing and potential drug candidate consideration by demonstrating doses causing an indication of beneficial effect versus an indication of side effects.

   One beagle involved in the studies described above, had 15 episodes of emesis over a 5 hour period, and another had 12 episodes of emesis over a 2-hour period. Both beagles were responsive throughout the studies and were improved by eight hours post dose.

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)

   The beagles did not receive pharmacologic intervention to ameliorate the discomfort associated with emesis since such treatments may interfere with the markers being measured in the blood. Also, emesis is an endpoint/side effect that is being monitored under these studies and is believed to be induced by immune mediators such as TNF-alpha. In previous studies, anti-emetics were ineffective except for dexamethasone, at alleviating emesis induced by immune response modifiers. Dexamethasone is a steroid which would interfere with the immunological markers being measured. Both beagles were improved at eight hours post dose so no further intervention, such as IV fluids or pain relief was deemed necessary.

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):

   Agency:

   CFR:
Column E Explanation

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: 41-R-0008

2. Number of animals used in the study: 2

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

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

Pigs were included on topical dose studies. These studies involve non-consecutive repeated topical dosing of compounds on multiple 20 cm² skin sites on one animal. Two animals had associated scab/sore formation on greater than 50% of at least one 20 cm² dose site. In both cases the animals were otherwise healthy and were under observation by the attending veterinarian and technical staff. Despite the lesions at the dose site(s) the animals displayed no detectable pain or distress responses. While the animals displayed no noticeable discomfort, they are categorized as column “E” because there may have been the potential for pain or distress.

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)

While in-vitro tests are routinely run to eliminate those topical drugs and dose levels that might cause adverse effects, the precursor assessments cannot always predict the outcome of repeated dosing. When the scab formation was greater than 50% of the dose site, dosing was discontinued at that site. The discontinuation of dosing in all cases resulted in an improving dose site. Evaluating the potential for recovery from the unexpected adverse effect has scientific value and intervention with a therapeutic remedy (topical anesthetic) would have compromised the clinical observations and scoring of the test site. While using this method, the animals were not in any detectable level of pain or distress and the dose sites improved without infection.

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):

Agency:

CFR:
**ANNUAL REPORT OF RESEARCH FACILITY**

**TYPE OR PRINT**

---

**UNIVERSITY OF ST. JOHN'S**

**DEPARTMENT OF ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

**ANNUAL REPORT OF RESEARCH FACILITY**

(TYPE OR PRINT)

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**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**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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</th>
<th>E. Number of animals upon which teaching, research, experiments, 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 reasons such drugs were not used must be attached to this report)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Cats</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hamsters</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbits</td>
<td>8</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-human Primates</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheep</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigs</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Farm Animals</td>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Animals</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**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, teaching, 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)

---

**DATE SIGNED:** 10/18/2004

---

*This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2143.*
Customer ID and Site Address:

ID: 560
Science Center
Collegeville, MN 56321
County: Stearns
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO. 41-R-0015
   CUSTOMER NO. 558
   FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include zip code)
   MEDTRONIC PHYSIOLOGICAL RESEARCH LABORATORIES
   11520 YELLOW PINE STREET NW
   MINNEAPOLIS, MN 55448
   (763) 514-6800

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

   See Attached Listing

   FACILITY LOCATIONS(sites)

   [Blank]

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

<table>
<thead>
<tr>
<th>A.</th>
<th>Animals Covered by The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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</th>
<th>E. Number of animals upon which teaching, research, experiments, 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 reasons such drugs were not used must be attached to this report)</th>
<th>F. TOTAL NO. OF ANIMALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>75</td>
<td></td>
<td>378</td>
<td></td>
<td>378</td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Hamsters</td>
<td>0</td>
<td>169</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Non-Human Primates</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10. Sheep</td>
<td>20</td>
<td>142</td>
<td>142</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Pigs</td>
<td>20</td>
<td>239</td>
<td>239</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>12. Other Farm Animals</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td></td>
</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, teaching, 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 approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

[Signature]

APHIS FORM 7023
(AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete)
Aphis Form 7023 Site List

We have housed animals at the following sites:

Medtronic PRL
11520 Yellow Pine St NW
Minneapolis, MN 55448
(763)514-6800

Neaton Farms
11549 Highway 25
Watertown, MN 55388
(952)955-2596
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

Interagency Report Control No: 0.:

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. CERTIFICATE NUMBER: 41-R-0022
   CUSTOMER NUMBER: 552

Guidant Corporation
Cardiac Pacemakers Inc
4133 Fernwood Ave
Arden Hills, MN 55112
Telephone: (651) -582-4501

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)

U of MN
FACILITY LOCATIONS (Sites) - See Attached

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.
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   F. TOTAL NUMBER OF ANIMALS
      COLUMNS C+D+E

4. Dogs
5. Cats
6. Guinea Pigs
7. Hamsters
8. Rabbits
9. Non-human Primates
10. Sheep
11. Pigs
12. Other Farm Animals
13. Other Animals

TOTAL NUMBER OF ANIMALS

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, teaching, 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 approved by the 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 brief explanations 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)

DATE SIGNED
Children's Health Care Of St. Paul
Neonatal Research Laboratory
345 N. Smith Avenue
Mail Stop 60138
St Paul, MN 55102

1. CERTIFICATE NUMBER: 41-R-0029
   CUSTOMER NUMBER: 551

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: See attached listing

**Table: Report of Animals Used by or Under Control of Research Facility**

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
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**Certification by Headquarters Research Facility Official**

<table>
<thead>
<tr>
<th>SIGNATURE OF C.E.O. (PRINT OR TYPE)</th>
<th>NAME TITLE OF C.E.O. OR RESPONSIBLE OFFICIAL</th>
<th>DATE SIGNED</th>
</tr>
</thead>
</table>

AUG 91
### UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

**ANNUAL REPORT OF RESEARCH FACILITY**
(TYPE OR PRINT)

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<thead>
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Doane Pet Care
210 Westwood Pl. South
Suite 300
Brentwood, TN 37027
Telephone: (615) -309-3011

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

<table>
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<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
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<tr>
<td>13. Other Animals</td>
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---

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

INSTITUTIONAL OFFICIAL

DATE SIGNED: 11/1/2004

Replaces VS FORM 18-23 (OCT 88), which is obsolete.)
Customer ID and Site Address:

ID: 600
37499 U.S Highway 169
St. Peter, MN 56082
County: Nicollet

Telephone
(507)931-9011
ANNUAL REPORT OF RESEARCH FACILITY

Ridgewater College
Veterinary Technology Dept.
P. O. Box 1097
Willmar, MN 56201
Telephone: (612) -235-5114

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.)

FAcILIlY LOCATIONS (Sites) - See Attached Listing

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7. Hamsters

8. Rabbits

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12. Other Farm Animals

13. Other Animals

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Name of person signing) NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGNED

(AUG 91)
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

United States Department of Agriculture
Animal and Plant Health Inspection Service

Annual Report of Research Facility

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<th>Certificate Number: 41-R-0043</th>
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<tr>
<td>Gustavus Adolphus College</td>
<td>Oct 14 2004</td>
</tr>
<tr>
<td>800 W. College Avenue</td>
<td>St Peter, MN 56082</td>
</tr>
<tr>
<td>Telephone: (507) -933-8000</td>
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</table>

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

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Certification by Headquarters Research Facility Official

(Chief Executive Officer or Legally Responsible Institutional Official)

Name & Title of C.E.O. or Institutional Official (Type or Print)

Date Signed: 9/26/04
ANNUAL REPORT OF RESEARCH FACILITY

1. CERTIFICATE NUMBER: 41-R-0045
   CUSTOMER NUMBER: 548

University Of St. Thomas
2115 Summit Avenue
St Paul, MN 55105
Telephone: (651) -962-5220

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

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(Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

(AUG 91)
Attachment I: FACILITY LOCATIONS

Room: **OWS 382**
Owens Science Hall
University of St. Thomas
2115 Summit Avenue
St. Paul, MN 55126

Room: **OWS 252**
Owens Science Hall
University of St. Thomas
2115 Summit Avenue
St. Paul, MN 55126
### ANNUAL REPORT OF RESEARCH FACILITY

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Interagency Report Control

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21:

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 41-R-0052
2. FORM APPROVED
OMB NO. 0579-0036

CUSTOMER NUMBER: 1633

Insight Biomed Inc.
710 E. 24th St. Suite L30
Minneapolis, MN 55404
Telephone: (612) -336-5050

1. 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, surgery, or 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 as 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, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)

F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)

4. Dogs
5. Cats
6. Guinea Pigs
7. Hamsters
8. Rabbits
9. Non-human Primates
10. Sheep
11. Pigs
12. Other Farm Animals
13. Other Animals

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 teaching, 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 APHIS 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 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)

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL

DATE SIGNED

APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

See attached form for additional information.

Interagency Report Control Number

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. CERTIFICATE NUMBER: 41-R-0055
2. CUSTOMER NUMBER: 1657

Parker Hughes Institute
2720 Patton Road
Roseville, MN 55113
Telephone: (651) -604-9064

OCT 1 8 2004

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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>A. Chemistry</th>
<th>B. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.</th>
<th>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.</th>
<th>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 appropriate anesthetic, analgesic, or tranquilizing drugs were used.</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>0</td>
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<td>5. Cats</td>
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<tr>
<td>6. Guinea Pigs</td>
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<td>7. Hamsters</td>
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<td>8. Rabbits</td>
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<td>9. Non-human Primates</td>
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<tr>
<td>10. Sheep</td>
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<tr>
<td>11. Pigs</td>
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<td>12. Other Farm Animals</td>
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<tr>
<td>13. Other Animals</td>
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</tr>
</tbody>
</table>

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, teaching, 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 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)

DATE SIGNED: 10/3/04

(Contains 7023A, which is obsolete.)
**ANNUAL REPORT OF RESEARCH FACILITY**

**TYPE OR PRINT**

---

1. **REGISTRATION NO.**
   - 41-R-0058

2. **CUSTOMER NO.**
   - 1704

3. **FACILITY LOCATIONS**
   - See Attached Listing

---

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.</th>
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<th>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 reasons such drugs were not used must be attached to this report)</th>
<th>F. TOTAL NO. OF ANIMALS (Cols. C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>51</td>
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<tr>
<td>6. Guinea Pigs</td>
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<tr>
<td>7. Hamsters</td>
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<tr>
<td>8. Rabbits</td>
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<tr>
<td>9. Non-Human Primates</td>
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<tr>
<td>10. Sheep</td>
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<td>11. Pigs</td>
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<td>12. Other Farm Animals</td>
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<tr>
<td>Cattle</td>
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<td></td>
<td>1</td>
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<tr>
<td>13. Other Animals</td>
<td></td>
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</tr>
</tbody>
</table>

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**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, teaching, 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 approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

**SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL**

**NAME OF CEO OR INSTITUTIONAL OFFICIAL**

**DATE SIGNED**

11/14/2004

---

(AUG 91), which is obsolete

**PART 1 - HEADQUARTERS**
### ANNUAL REPORT OF RESEARCH FACILITY

**TYPE OR PRINT**

**CERTIFICATE NUMBER:** 41-R-0059  
**CUSTOMER NUMBER:** 1725  
Beckman Coulter, Inc  
1000 Lake Hazeltine Dr  
Chaska, MN 55318  
Telephone: (612) -448-4848

---

### 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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>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.</th>
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<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
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<tr>
<td>6. Guinea Pigs</td>
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<td></td>
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<tr>
<td>7. Hamsters</td>
<td></td>
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<td></td>
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<tr>
<td>8. Rabbits</td>
<td>81</td>
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<tr>
<td>9. Non-human Primates</td>
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<tr>
<td>10. Sheep</td>
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<tr>
<td>11. Pigs</td>
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<tr>
<td>12. Other Farm Animals</td>
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<td>Burros</td>
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</table>

### 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, teaching, testing, surgery, or experimentation were followed by this research facility.

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**CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL**

(If Executive Officer or Legally Responsible Institutional Official)

<table>
<thead>
<tr>
<th>NAME AND TITLE OF OFFICIAL (Type or Print)</th>
<th>DATE SIGNED</th>
</tr>
</thead>
</table>

(AUG 91)
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

See attached form for additional information.

**ANNUAL REPORT OF RESEARCH FACILITY**

**TYPE OR PRINT**

1. **CERTIFICATE NUMBER:** 41-R-0060
   **CUSTOMER NUMBER:** 1816

Cameron College
500 Simon Court
Dept. Of Psychology
Northfield, MN 55057

Telephone: (507)-646-4372

**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)**

<table>
<thead>
<tr>
<th>Site</th>
<th>17</th>
<th>19</th>
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<tbody>
<tr>
<td>Huling</td>
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**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

**ATTACH ADDITIONAL SHEETS IF NECESSARY OR USE APHIS FORM 7023A**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>A.</th>
<th>B.</th>
<th>C.</th>
<th>D.</th>
<th>E.</th>
<th>F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
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<tr>
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<td></td>
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<tr>
<td>Guinea Pigs</td>
<td>6</td>
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<tr>
<td>Hamsters</td>
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<tr>
<td>Rabbits</td>
<td>8</td>
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<tr>
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<td>Sheep</td>
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<tr>
<td>Pigs</td>
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<tr>
<td>Other Farm Animals</td>
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<tr>
<td>Other Animals</td>
<td>13</td>
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</tbody>
</table>

**ASSURANCE STATEMENTS**

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**CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL**

(Chief Executive Officer or Legally Responsible Institutional Official)

<table>
<thead>
<tr>
<th>SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL</th>
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</thead>
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<tr>
<td>DATE SIGNED</td>
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<td>10-27-01</td>
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</table>

**FORM 7023**

(Replaces VS FORM 18k3 (October 1977 which is obsolete)
**CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)**

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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</th>
<th>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, 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 reasons such drugs were not used must be attached to this report)</th>
</tr>
</thead>
<tbody>
<tr>
<td>cotton top tamarins</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

**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, teaching, 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 approved by the 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) I certify that the above is true, correct, and complete (7 USC Section 2143)

**SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL**

**DATE SIGNED**

10-27-04
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

See attached form for additional information.

Interagency Report Control No.: 

APPLEC LABORATORY SERVICES, LLC
2540 Executive Drive
St Paul, MN 55120

NOV 16 2004

Telephone: (651) -675-2000

1. CERTIFICATE NUMBER: 41-R-0061
   CUSTOMER NUMBER: 15690

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

UNIVERSITY OF MINNESOTA
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

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 animals being bred, conditioned, or used for such purposes. | C. Number of animals upon which experiments, research, surgery, or tests were conducted involving no pain, distress, or use of pain-relieving drugs. | D. Number of animals upon which experiments, 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 appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, res
   | Dogs | 3 |
   | Cats | 0 |
   | Guinea Pigs | 5560 |
   | Hamsters | 0 |
   | Rabbits | 900 | 144 | 1044 |
   | Non-human Primates | 0 |
   | Sheep | 0 |
   | Pigs | 0 |
   | Other Farm Animals | 0 |
   | Other Animals | 0 |

| F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) | 1044 |

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.

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Y HEADQUARTERS RESEARCH FACILITY OFFICIAL
Officer or Legally Responsible Institutional Official

DATE SIGNED: 11/3/04

Page dimensions: 623.5x797.4

[Image 0x0 to 624x797]
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

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<table>
<thead>
<tr>
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<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
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<td>4. Dogs</td>
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<td>102</td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>8</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>7. Hamsters</td>
<td>0</td>
<td></td>
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<td></td>
<td>0</td>
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<tr>
<td>8. Rabbits</td>
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<td>9. Non-human Primates</td>
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<td>10. Sheep</td>
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<td>12. Other Farm Animals</td>
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<td>13. Other Animals</td>
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<td></td>
<td>0</td>
</tr>
</tbody>
</table>

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, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

<table>
<thead>
<tr>
<th>FIRM</th>
<th>NAME &amp; TITLE OF CEO OR INSTITUTIONAL OFFICIAL</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>19/4/69</td>
</tr>
</tbody>
</table>
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. CERTIFICATE NUMBER: 41-R-0063
CUSTOMER NUMBER: 19782

Protatek International Inc
2635 University Ave West
Suite 140
St Paul, MN 55114

Telephone: (651) 644-6831

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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
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<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td></td>
<td>76</td>
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<tr>
<td>5. Cats</td>
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<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>96</td>
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<tr>
<td>7. Hamsters</td>
<td>58</td>
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<td></td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>179</td>
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<td></td>
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</tr>
<tr>
<td>9. Non-human Primates</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>10. Sheep</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>11. Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, teaching, testing, surgery, or experimentation were followed by this research facility.

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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)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGNED

APHIS FORM 7023 (Replaces VA Form 10-22 (Rev 1 91), which is obsolete.)

(AUG 91)
**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, teaching, testing, surgery, or experimentation were followed by this research facility.

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**CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL**

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

**SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL**

**NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL**

**DATE SIGNED**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>Number of Animals Being Bred, Conditioned, or Held for Use in Teaching, Testing, Experiments, Research, or Surgery but Not Yet Used for Such Purpose</th>
<th>Number of Animals Upon Which Teaching, Research, Experiments, or Tests Were Conducted Involving No Pain, Distress, or Use of Pain-Relieving Drugs</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>0</td>
<td>11</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>Cats</td>
<td>0</td>
<td>16</td>
<td>103</td>
<td>02</td>
</tr>
<tr>
<td>Guinea Pigs</td>
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<tr>
<td>Hamsters</td>
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</tr>
<tr>
<td>Rabbits</td>
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<td>2</td>
<td>00</td>
<td>02</td>
</tr>
<tr>
<td>Non-human Primates</td>
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<td>0</td>
<td>00</td>
<td>02</td>
</tr>
<tr>
<td>Sheep</td>
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<td>0</td>
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<td>02</td>
</tr>
<tr>
<td>Pigs</td>
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<td>0</td>
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<td>02</td>
</tr>
<tr>
<td>Other Farm Animals</td>
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<tr>
<td>Other Animals</td>
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<tr>
<td>Chinchillas</td>
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</tbody>
</table>
**UNIVERSITY DEPARTMENT OF AGRICULTURE**
**ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

**ANNUAL REPORT OF RESEARCH FACILITY**

(41-R-0065)

**CUSTOMER NUMBER:** 21651

**Duluth Business University**
4724 Mike Colalillo Dr.
Duluth, MN 55807

**Telephone:** (999) -999-9999

1. **CERTIFICATE NUMBER:** 41-R-0065
2. **CUSTOMER NUMBER:** 21651

**UNITED STATES DEPARTMENT OF AGRICULTURE**

See attached form for additional information.

**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)

<table>
<thead>
<tr>
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<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>0</td>
<td>179</td>
<td>18</td>
<td>0</td>
<td>197</td>
</tr>
<tr>
<td>5. Cats</td>
<td>0</td>
<td>51</td>
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<tr>
<td>6. Guinea Pigs</td>
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<td>0</td>
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<td>7. Hamsters</td>
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<tr>
<td>9. Non-human Primates</td>
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<td>13. Other Animals</td>
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<td>0</td>
</tr>
</tbody>
</table>

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(Chief Executive Officer or Legally Responsible Institutional Official)

<table>
<thead>
<tr>
<th>NAME &amp; TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10-12-04</td>
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</tbody>
</table>
### ANNUAL REPORT OF RESEARCH FACILITY

**(TYPE OR PRINT)**

### FACILITY LOCATIONS

*See Attached Listing*

### REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY

<table>
<thead>
<tr>
<th>Animals Covered</th>
<th>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.</th>
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<th>TOTAL NUMBER OF ANIMALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>4</td>
<td>34</td>
<td></td>
<td></td>
<td>38</td>
</tr>
<tr>
<td>Cats</td>
<td>7</td>
<td>16</td>
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<td>16</td>
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<tr>
<td>Guinea Pigs</td>
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<td></td>
<td>16</td>
</tr>
<tr>
<td>Hamsters</td>
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<tr>
<td>Rabbits</td>
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<tr>
<td>Sheep</td>
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<tr>
<td>pigs</td>
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<td>12</td>
</tr>
<tr>
<td>Other Farm Animals</td>
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<td>11</td>
</tr>
</tbody>
</table>

### 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 animal research, teaching, testing, 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 been required that exceptions to the standards and regulations be specified and explained by the principal investigator and the 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

**DATE SIGNED**

_AUG 91_

TOTAL P. 32
This report result in a law (7 USC 2143). Failure to report according to the regulations can result in a fine and desist and to be subject to penalties as provided for in Section 21. See attached form for additional information.

1. CERTIFICATE NUMBER: 41-R-0067
2. CUSTOMER NUMBER: 23127

Newport Laboratories
727 Oxford St
Worthington, MN 56187
Telephone: (507) -372-7779

OCT 12 2004

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

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.</th>
<th>D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals but not requiring use of anesthetic, analgesic, or tranquilizing drugs.</th>
<th>E. Number of animals upon which teaching, experiments, research, or tests were conducted involving accompanying pain or distress to the animals and for which 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 reasons such drugs were not used must be attached to this report.)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Hamsters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Rabbits</td>
<td></td>
<td>118</td>
<td></td>
<td></td>
<td>118</td>
</tr>
<tr>
<td>9. Non-human Primates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Sheep</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)

118

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, teaching, 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 the 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 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

DATE SIGNED

(AUG 91)
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 211.

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

1. CERTIFICATE NUMBER: 41-R-0068
   CUSTOMER NUMBER: 25077

   Minnesota School Of Business
   @ Plymouth
   1455 County Rd 101 North
   Plymouth, MN 55447
   Telephone: (763) -476-2000

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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>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.</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.</th>
<th>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.</th>
<th>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 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 reasons such drugs were not used must be attached to this report.)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>0</td>
<td>50</td>
<td>25</td>
<td>0</td>
<td>75</td>
</tr>
<tr>
<td>5. Cats</td>
<td>0</td>
<td>800</td>
<td>100</td>
<td>0</td>
<td>300</td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>7. Hamsters</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>9. Non-human Primates</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10. Sheep</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11. Pigs</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>12. Other Farm Animals</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13. Other Animals</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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, teaching, 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 the 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)

SIGNATURE

DATE SIGNED 9/21/04

APHIS FORM (OCT 94), which is obsolete.)
**ANNUAL REPORT OF RESEARCH FACILITY**

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

<table>
<thead>
<tr>
<th>Animals Covered (Type or Print)</th>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes</th>
<th>Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>Number of animals upon which 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</th>
<th>Number of animals upon which teaching, experiments, 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</th>
<th>TOTAL NUMBER OF ANIMALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Cats</td>
<td>5</td>
<td>3</td>
<td>0</td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>6</td>
<td>4</td>
<td>0</td>
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<td></td>
<td>6</td>
</tr>
<tr>
<td>Hamsters</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Rabbits</td>
<td>8</td>
<td>5</td>
<td>0</td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Non-human Primates</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>9</td>
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<tr>
<td>Sheep</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Pigs</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Other Farm Animals</td>
<td>12</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Other Animals</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

**ASSURANCE STATEMENTS**

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**CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL**

(Chief Executive Officer or Legally Responsible Institutional Official)

Name & Title of C.E.O. or Institutional Official (Type or Print)

Date Signed: 9-13-94

(AUG 91)
October 12, 2004

USDA
Animal care group
920 Main Campus
Suite 200
Raleigh NC 27606-5213

Dear Dr. Goldentyer,

Enclosed you find the corrected annual report for the Minnesota School of Business-Richfield, customer number 25366, certificate number 41-R-0069. I sent over a change of location on 9/23/04 and received confirmation of delivery from “Jeremy” in the animal care division. The annual report was returned to me for correction at the previous location. Please be sure that you have the updated address on file.

New address
Minnesota School of Business-Shakopee
1200 Shakopee Town Square
Shakopee MN 55379
952-516-7017 veterinary tech. department
952-345-1200 main number

Thank you

Minnesota School of Business-Shakopee
1200 Shakopee Town Square
Shakopee MN 55379
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21.

**UNIVERSAL STATE DEPARTMENT OF AGRICULTURE**
**ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

**ANNUAL REPORT OF RESEARCH FACILITY**
( Type or Print )

IVD Services
10215 Cannon Road
Swanville, MN 56382

---

**1. CERTIFICATE NUMBER:** 41-R-0070
**CUSTOMER NUMBER:** 24893

10215 Cannon Road
Swanville, MN 56382
Telephone: (320) -573-7955

**2. 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 7023-

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
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<th>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</th>
<th>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 appropriate anesthetic, analgesic, or tranquilizing drugs were used.</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>72</td>
<td>0</td>
<td>72</td>
<td></td>
</tr>
</tbody>
</table>

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**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 approved by the 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.

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---

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

**NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL** (Type or Print)

**DATE SIGNED**

(AUG 91)

(Obsolete)