

## **Program Description**



**Binghamton University  
State University of New York**



**PO Box 6000  
Binghamton, NY 13902-6000  
July 24, 2019**



[illegible]



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- [REDACTED]  
 ■ [REDACTED]  
 ■ [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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1. The first part of the document is a header section containing the title "THE EFFECTS OF THE 2008 FINANCIAL CRISIS ON THE UK ECONOMY" and the author's name "J. Smith".

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[illegible]

[REDACTED]

## Instructions for Completing and Submitting [REDACTED]

[REDACTED]

### Section 1. Introduction

- A. State the name of the program unit and, if applicable, its parent organization. List all organizations (schools, centers, etc.) included within the program unit.

The Program Unit is Binghamton University, and the Parent Organization is the State University of New York.

- B. Give a brief overview of the institution, its purpose [REDACTED]  
[REDACTED] mission of the institution.

Binghamton University is a premier public university dedicated to enriching the lives of people in the region, state, nation and world through discovery, education and fostering partnerships within communities. The University consists of six schools: Harpur College of Arts and Sciences, the College of Community and Public Affairs, The Decker School of Nursing, the Thomas J. Watson School of Engineering and Applied Science, the School of Management, and the School of Pharmacy and Pharmaceutical Sciences. Our animal care & use program supports our nationally recognized Institution through the promotion and support of excellence in research and scholarly activities, fostering an environment of consciousness and responsibility as it engages in innovation and entrepreneurship. In accordance with our Institutional values; excellence, respect for the individual, integrity, diversity and accountability, we provide a solid foundation from which diverse disciplines use animals in research and teaching.

- C. Note that AAALAC International's three primary standards are *the Guide for the Care and Use of Laboratory Animals (Guide)*, NRC, 2011; *the Guide for the Care and Use of Agricultural Animals in Research and Teaching (Ag Guide)*, FASS, 2010, and the European Convention for the Protection of Vertebrate Animals Used for Experimental and Other Scientific Purposes, Council of Europe (ETS 123). Other regulations and guidelines used (U.S. Department of Agriculture (USDA), Public Health Service (PHS) Policy, Good Laboratory Practice (GLP), Canadian Council on Animal Care (CCAC), etc.) may also apply. Describe which of the three primary standards and other regulations and guidelines are used as standards for the institutional animal care and use program and how they are applied. For example, an academic institution in the United States with an Office of Laboratory Animal Welfare (OLAW) Assurance may use

the standards of the *Guide* and PHS Policy for all animals, the Animal Welfare Act regulations for covered species, and the *Ag Guide* for agricultural animals used in agricultural research and teaching (see also *Guide*, pp. 32-33). In the European Union, the standards applied might be the *Guide*, ETS 123, Directive 2010/63, and any country-specific regulations.

The primary standards used for [REDACTED] The Guide for Care & Use of Laboratory Animals, NRC, 2011 and the PHS policy. The Animal Welfare Act regulations are used [REDACTED]

- D. Describe the organization and include an accurate, current, and detailed organizational chart or charts [REDACTED] detailing the lines of authority from the Institutional Official to the Attending Veterinarian, the Institutional [REDACTED] Care and Use Committee/Oversight Body (IACUC/OB), and the personnel providing animal care. Please include the title, [REDACTED]

[REDACTED]

[illegible]

- E. Identify the key institutional representatives [REDACTED]

individual(s) [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- F. Briefly describe the major types of research, testing, and teaching programs involving [REDACTED] the approximate number of principal investigators and protocols [REDACTED] As mentioned in the instructions, please complete [REDACTED] or provide the information requested in a similar format [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- G. Note the source(s) of research funding (grants, contracts, etc.) [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- H. List other units (divisions, institutes, areas, departments, colleges, etc.) of your organization [REDACTED] If any of these are contiguous, physically or operationally [REDACTED] describe the association. Explain why such units are not part of this program application.  
*Note:* Questions regarding this section should be forwarded to the AAALAC Office.

None.



- I. Contract Facilities: If the institution contracts for [REDACTED] facilities or services for [REDACTED] the contractor and its AAALAC International accreditation status must be identified. If a contractor's [REDACTED] not accredited by AAALAC International, a brief description, following this Program Description outline, of the relevant contractor's programs and facilities must be provided. In addition, [REDACTED] the contract facilities and the approximate distance between the institution's [REDACTED] facility and the contract facility must be noted. Incorporation of the contractor program [REDACTED] will be discussed with institutional representatives. If the institution does not contract [REDACTED] or services, so note.

None.

- J. Note other relevant background that will assist reviewers of this report.

None.

## Section 2. Description

### I. Animal Care and Use Program

#### A. Program Management

##### 1. Program Management Responsibility [Guide, pp. 13-15]

###### a. The Institutional Official [Guide pp. 13-14]

Describe how program needs are clearly and regularly communicated to the Institutional Official [REDACTED] with the program.

The Institutional Official, (IO), has electronic access to IACUC meeting minutes, agendas, policies, protocols, reviews and reports [REDACTED]. The IO and AV attend [REDACTED] Senior Staff meetings. The IO attends at least [REDACTED] convened [REDACTED] meeting annually, and meets at least [REDACTED] with the [REDACTED] Chairperson. Members [REDACTED] (PIs), students & staff working [REDACTED] may meet with the IO at their request.

###### b. Role of the Attending Veterinarian [Guide, p. 14]

i. Describe the institutional arrangement for providing [REDACTED]. Although [REDACTED] will be described below, [REDACTED] including:

- a list of responsibilities
- a description of the [REDACTED] involvement in monitoring [REDACTED]
- the percentage of time devoted to supporting [REDACTED] of the institution if full-time; or the frequency and duration of visits if employed part-time or as a consultant.

Note: If preferred, this information may be provided in a Table or additional Appendix.

[REDACTED] employed full time as the AV/ Director of [REDACTED] and is responsible for: [REDACTED] surveillance, diagnosis, treatment, resolution, emergency care and quarantine [REDACTED] -providing advice and training [REDACTED]

-directing

■care/husbandry and use (

The AV devotes 100% of [REDACTED] time to the

ii. List others:

**Note:** If preferred, this information may be provided in a Table or additional Appendix.

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-managing [REDACTED] and training [REDACTED]

monitoring program.

-writing [REDACTED] training programs and [REDACTED] procedures, assisting with the [REDACTED] program with supplements from the [REDACTED] Library.

[REDACTED] responsibilities include:

-observing [REDACTED] daily, [REDACTED] and [REDACTED] samples as needed.

-assisting with [REDACTED] writing /reviewing [REDACTED] procedures, and reviewing [REDACTED]

-receiving [REDACTED] the facility.

-supervising, training and scheduling [REDACTED]

-overseeing [REDACTED] compliance [REDACTED] reviews

-ordering/receiving [REDACTED]

-ordering and managing [REDACTED]

[REDACTED] responsibilities include:

-observing [REDACTED] daily, providing [REDACTED] daily [REDACTED] and collecting [REDACTED] as needed.

-assisting with [REDACTED] writing /reviewing [REDACTED] and reviewing [REDACTED]

-receiving [REDACTED] the facility.

[REDACTED] and Instructional Support Specialist who was promoted [REDACTED]

[REDACTED] is training in [REDACTED] new position, (responsibilities will be the same as described for [REDACTED] when training is complete) [REDACTED]

[REDACTED] full time training for the [REDACTED] Technician/Instructional Support Specialist will commence when [REDACTED] are hired. [REDACTED]

August or September 2019.

[REDACTED]  
[REDACTED]  
[REDACTED]

buildings (depending on room assignment). [REDACTED]

responsibilities include:

- training [REDACTED]

cleaning and sanitizing per [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**c. Interinstitutional Collaborations** [Guide, p. 15]

Describe processes for assigning animal care and use responsibility, animal ownership and IACUC/OB oversight responsibilities at off-site locations for interinstitutional collaborations.

Interinstitutional collaborations are part of our approved protocol with consideration for procedures performed at the collaborating institution. Material Transfer

Agreements describe [REDACTED] ownership; however, this Institution assumes [REDACTED]

[REDACTED] responsibility on [REDACTED]

**2. Personnel Management**

**a. Training, Education, and Continuing Educational Opportunities**

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

i. [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



[REDACTED]

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[REDACTED]

ii. Animal Care Personnel [Guide, p. 16]

- 1) Indicate [REDACTED] care personnel.

There are [REDACTED] working as [REDACTED] personnel.

- 2) Summarize [REDACTED] training, [REDACTED] and continuing education [REDACTED]

Note: If preferred, this information may be provided in a Table or additional Appendix.

[REDACTED] employment through the competitive NYS Department of Civil Service examination system [REDACTED]

[REDACTED]

iii. The Research Team [Guide, pp. 16-17; 115-116; 122; 124]

- 1) Describe the *general mechanisms* by which the [REDACTED] personnel have the necessary knowledge and expertise [REDACTED]

Before admission [REDACTED] personnel must pass [REDACTED] courses [REDACTED] and have a health screening form reviewed by a medical professional [REDACTED]

[REDACTED] Required courses are assigned [REDACTED]

Personnel or visitors [REDACTED] for less than 3 months are required to either take the courses [REDACTED] or submit a 'History of Educational Training Form', and have a health screening form reviewed by a medical professional [REDACTED]

[REDACTED] personnel & training are documented [REDACTED]

laboratory training

██████████ to ensure personnel have the necessary knowledge and expertise as ██████████

[illegible]

The [REDACTED] Administrator controls access [REDACTED] receives completion notices [REDACTED], verifies the review of health forms, [REDACTED] courses passed, and validity of previous educational history [REDACTED] facility. Individuals are notified of 'clearance [REDACTED]' by e-mail or in person. EH&S training is scheduled each fall semester, or upon [REDACTED] request. [REDACTED]

c) Describe continuing education opportunities offered.

The University, and [REDACTED] supports [REDACTED] personnel seeking continuing education. [REDACTED] the [REDACTED]  
[REDACTED]  
[REDACTED] training workshop. Also, there are a variety of courses on research conduct [REDACTED] available to all personnel working in research. Webinars [REDACTED] are advertised to all personnel [REDACTED]  
[REDACTED] personnel present training topics [REDACTED]  
[REDACTED]  
[REDACTED] are required by their department to attend.  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] Our PIs and many of their students regularly attend scientific meetings and conferences supported by the University and [REDACTED]

2) Describe the process(es) to [REDACTED] procedures are performed by qualified and trained personnel [REDACTED]

- [REDACTED]  
[REDACTED]
- [REDACTED]  
[REDACTED]

[REDACTED] reviews the qualifications [REDACTED] and their training program [REDACTED] In general, the PI is responsible [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

3) Describe the training and experience required [REDACTED]  
[Guide, p. 122]

[REDACTED]

- 4) Describe [REDACTED] the proficiency of personnel [REDACTED]  
[REDACTED]

[REDACTED] requires scientific justification for [REDACTED]  
[REDACTED] Competence [REDACTED]  
[REDACTED] is evaluated [REDACTED]  
[REDACTED] The PI is responsible for training and qualifying individuals [REDACTED]  
observing for proficiency. [REDACTED] train individuals to perform [REDACTED]  
Proficiencies are documented [REDACTED]

**b. Occupational Health and Safety of Personnel** [Guide, pp. 17-23]

**i. Institutional Oversight** [Guide, pp. 17-19]

- 1) List the institutional entities (units, departments, [REDACTED]) that are involved in the planning, oversight, and operation of the institutional occupational health and safety program [REDACTED] (e.g., office(s) of environmental health, institutional health services or clinics (*including contracted health services*), industrial hygienists, Institutional Biosafety Committee(s) and/or Officer(s), Radiation Safety Committee(s) and/or Officer(s).
- Include a brief description of their responsibilities and qualifications.
  - If contracted services are used, also include their location (e.g., remote offices to which personnel must report).

[REDACTED]  
[REDACTED] EH&S and [REDACTED] responsible for the planning, oversight and operation of the animal care and use occupational health and safety program (OHSP).



[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
Initial health screening forms are sent to their office [REDACTED]  
[REDACTED] medical professionals can make individualized  
recommendations. The [REDACTED]  
when forms are reviewed. [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

#### Institutional Safety Committees:

The **Institutional Biosafety Committee (IBC)** reviews all protocols that  
[REDACTED] and use of biohazardous materials to ensure the safe  
handling, storage, and disposal of such hazards. [REDACTED]  
[REDACTED]

This  
collaborative effort between the research compliance oversight committees on  
correlative research activities support the University's commitment to remain  
in compliance with applicable regulations and to ensure that any [REDACTED]  
[REDACTED]

[REDACTED] a risk or potential risk to the health of humans [REDACTED] through  
exposure is effectively mitigated and monitored.

The **Radiation Safety Committee (RSC)** reviews all protocols that use  
radioactive substances. The Committee advises members of the University  
community in matters involving radiological procedures and safety;  
establishing procedures pertaining to the ordering, receipt, use and disposal of  
radioactive materials; and advises faculty on specific problems related to the  
use of radioactive materials in research and instruction. [REDACTED]  
[REDACTED] until approval from the RSC has  
been granted. This collaborative effort between the research compliance  
oversight committees on correlative research activities support the University's  
commitment to remain in compliance with applicable regulations and to ensure  
that any radioactive substance that presents a risk or potential risk to the health  
of humans [REDACTED] through exposure is effectively mitigated and  
monitored.

The **Stem Cell Research Oversight Committee (SCRO)** ensures that all  
research involving the derivation or use of human pluripotent stem cells is  
conducted with the highest ethical and scientific research standards, and in

compliance with all applicable federal and state regulations, Binghamton University policies, and the requirements of extramural research sponsors.

until approval from the SCRO has been granted. This collaborative effort between the research compliance oversight committees on correlative research activities support the University's commitment to remain in compliance with applicable regulations and to ensure that any risk or potential risk to the health of humans through exposure is effectively mitigated.

- 2) Describe methods to identify work-related hazards and the processes used to evaluate the significance of those hazards in the context of duties and tasks. Describe both common approaches and differences, if applicable, for categories of personnel such as, members (including non-affiliated members) [Guide, pp. 18-19; see also Chapters 2 and 3 in Occupational Health and Safety in the Care and Use of

Methods used to identify work-related hazards begin with the health screening forms accident reports and the IBC or RSC approval as applicable. Critical assessments of associated risks are made by observations during EH&S lab safety inspections, weekly rounds, daily reports communications reported communication between the evening housekeeping staff and communication An on-going risk assessment is performed by the assessments have included handling. In consultation with EH&S, personnel, and determines appropriate strategies to eliminate or minimize an identified risk.

- 3) Describe methods and frequency of reassessing work-related hazards.

consult with EH&S to schedule a reassessment or develop a monitoring program for an identified hazard, or reassess work-related hazards unscheduled, and consult with the individual or groups to eliminate or minimize the hazard.

- 4) Describe institutional programs or methods used to track and evaluate safety-related workplace incidents, including injuries, exposures, accidents, etc. Include the frequency of such assessments. [Guide, pp. 18-19]

EH&S requires the filing of a non-motor vehicle accident report (CS-13) form, from any student or employee with a work-related injury or exposure. The Office of Human Resources requires University employees to file an additional "Employee Accident and Investigation Report". This information is tracked and evaluated [REDACTED]

The waste gas monitoring program is performed semi-annually for each lab [REDACTED] Radiation safety badges are provided by [REDACTED] and are [REDACTED]

**ii. Standard Working Conditions and Baseline Precautions**

The following section pertains to the Occupational Health and Safety Program for all personnel associated with the animal care and use program. Specific information regarding the use of hazardous agents is included in **subsection iii** below.

- 1) **Medical Evaluation and Preventive Medicine for Personnel** [Guide, pp. 22-23] *Note:* Include blank forms used for individual health assessment as Appendix 6.

- a) Describe who (e.g., personnel assigned to job/task categories in I.A.2.b.i.2) above) receives personal medical evaluation as a component of individual risk assessment. Describe who are **not** included and/or exempted from personal medical evaluation. *Note:* Do not include the names of personnel.

[REDACTED]

- b) Describe provisions for allowing an individual (following completion of individual health and job related risk assessments) to decline participation in all or part(s) of subsequently available medical and

preventive medicine components of the institutional program, e.g., vaccinations, physical examinations, respiratory protection, as applicable. Provide an estimate (percentage) of personnel associated with [REDACTED] that have declined participation in the medical evaluation program.

*Note: Do not include names of the personnel*

There is not an [REDACTED] provision for individuals to decline participation in the [REDACTED], however, any individual can decline participation by not providing accurate medical history, or defer to their primary care physician's guidance and advice.

c) Describe provisions for assuring confidentiality of medical information.

[REDACTED]

d) Describe safety considerations for individuals with incidental exposure [REDACTED] (e.g., contractors, personnel working in open laboratories).

Personnel with incidental exposure [REDACTED] are asked to read and sign the [REDACTED] waiver describing potential allergens and reactions, and offering personal protective equipment like lab coats, face masks, gloves and shoe covers. Visitors are also given the option of enrolling in the [REDACTED]. If such personnel are working in [REDACTED] or in/around the [REDACTED] they are required to wear shoe covers and disposable lab coats.

e) Describe general features of the medical evaluation and preventive medicine programs, within the context of work duties, including:

- pre-employment/pre-assignment health evaluation,
- medical evaluations (including periodicity),
- diagnostic tests (e.g., for tuberculosis),
- precautions for working with potentially [REDACTED] (e.g.,

- immunization programs, and
- procedures for communicating health related issues.

The health evaluation begins with the health screening form assessing an individual's contact [REDACTED] allergens, their immune status history, allergy/asthma history, vaccination history, pregnancy and illness status. Recommendations for personal protective equipment, vaccination, or other medical advice (diagnostic testing, examinations, etc.) is made by a medical professional. Changes to the health evaluation may be submitted at any time; however, an annual health review via the same form is expected.

[REDACTED]  
[REDACTED]  
[REDACTED] Vaccines may be obtained at the [REDACTED]  
[REDACTED] walk-in clinic, or through a primary care physician. Health related issues for students may be addressed at the [REDACTED]. Any health issue (from a student, employee, or visitor) updated on a health form, is reviewed by the [REDACTED] who meets with the individual, and may send information to the medical professionals at [REDACTED] for their consultation/review. In conjunction with [REDACTED] EH&S offers a respiratory protection program for personnel based on the requirements set forth in OSHA 29 CFR 1910.134.1.

- f) Describe any other entities that provide medical services (e.g., emergency care, after-hours care, special medical evaluation, contracted services). Include a brief description of their credentials and/or qualifications, and how these entities remain knowledgeable about animal- or institution-related hazards and risks.

[REDACTED] operates two hospital emergency rooms, each located within four miles of campus. [REDACTED] is accredited by The Joint Commission, a national agency that accredits and certifies nearly 21,000 hospitals, systems and healthcare programs across the country. Joint Commission accreditation is recognized nationwide as a symbol of excellence that reflects a hospital's commitment to meeting the highest performance standards. The Joint Commission's mission is to continuously improve healthcare for the public.

## 2) Personnel Training Regarding Occupational Health and Safety [Guide, p. 20]

Describe general educational program(s) to inform personnel about:

- allergies,
- [REDACTED]

- personal hygiene,
- physical injuries in [REDACTED] (e.g., noisy areas, large quantities of chemicals such as disinfectants, ergonomics) or [REDACTED]
- other considerations regarding occupational health and safety.

Include in the description a summary of the topics covered, including:

- Entities responsible for providing the training
- Frequency of training or refresher training

*Note:* Do not include special or agent-specific training for personnel exposed to experiment-related hazardous agents; this will be provided in **Section iii.3** below.

General education programs informing personnel about allergies, zoonosis, personal hygiene, physical injuries and other OH&S considerations are covered in each of the required [REDACTED] training modules, and during the required annual Lab Safety and Hazard Communication courses provided by EH&S. [REDACTED] programs are required to be successfully completed every four years. [REDACTED] provide training and educational programs through webinars and presentations on an 'as needed' or 'as available' basis. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### 3) Personal Hygiene [Guide, p. 20; Ag Guide pp. 4-5]

- a) List routine personal protective equipment and work clothing provided and/or required for animal care personnel, research and technical staff, farm employees, etc.

[REDACTED] personnel are provided with uniforms, shoes, laboratory coats, gloves, N-95 masks, goggles, aprons, face shields and hearing protection to be worn [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



b) Describe arrangements for laundering work clothing.

Uniforms are laundered in [REDACTED] A commercial vendor, [REDACTED] collects and cleans lab coats and hand towels used for [REDACTED] for research/technical staff, and visitors/vendors working [REDACTED]

c) Describe provisions and expected practices for washing hands, showering, and changing clothes, including instances where work clothes may be worn outside [REDACTED]

In addition to procedure spaces and wet labs, [REDACTED] has a sink with hand soap and paper towels. Locker rooms with showers are provided for [REDACTED] begin the work day by changing their clothing and shoes to their dedicated uniforms. Before leaving [REDACTED] they change into their 'street clothes'. [REDACTED] (near dry lab spaces and the facility entrance for [REDACTED] personnel) has a closet with clean lab coats and a hamper for soiled coats. There are hooks in the hallways leading from the dry & wet lab areas to the procedure spaces for additional or re-usable lab coats and dedicated footwear [REDACTED]

d) Describe policies regarding eating, drinking, and smoking in animal facilities.

Smoking, chewing tobacco and vaping are prohibited on the tobacco-free campus. Eating and drinking are permitted in offices, conference rooms, dry lab spaces and break rooms, including: [REDACTED] [REDACTED] are allowed to keep one individual bottle of water in the [REDACTED] [REDACTED] for individual consumption during work hours.

4) Standard Personnel Protection [Guide, pp. 21-22]

a) Describe facility design features, equipment and procedures employed to reduce potential for physical injury inherent to animal facilities (e.g., noisy areas, large quantities of chemicals such as disinfectants, ergonomics) or species used (e.g., nonhuman primates, agricultural animals).

[REDACTED] is designed to minimize noise and allergens by physically separating [REDACTED] procedure, dry and wet laboratories on each floor, and separate [REDACTED] floor. [REDACTED] are only permitted in the [REDACTED] spaces, not in the wet and dry labs. [REDACTED]



b) Describe likely sources of allergens and facility design features, equipment, and procedures employed to reduce the potential for developing [REDACTED] Allergies (LAA).

c) Describe likely sources of zoonoses and facility design features, equipment, and procedures employed to reduce potential exposure to zoonoses.

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- d) Describe the procedures for the maintenance of protective equipment and how its function is periodically assessed.

If handwashing sinks malfunction, they are repaired the same day. Goggles, face shields, aprons, ear protection and vinyl re-usable gloves are replaced if worn or broken. If the air curtain fails, [REDACTED] contacts [REDACTED] for repair the same day. Door sweeps and gaskets are replaced if worn or broken.

e) Respiratory Protection

- i) Describe situations where respiratory protective equipment is available or required, [REDACTED]

[REDACTED]

Supervisors must be familiar with and inform his/her employees and students of hazardous and potentially hazardous air contaminants associated with an operation. If a supervisor cannot provide this information, or if a special assessment of an area or operation must be made, assistance can be requested through [REDACTED]. The supervisor must also be able to assure that those persons understand and participate in the Respiratory Protection Program i.e., receive training, properly use and maintain respirators, keep records.

Individuals participating in the Respiratory Protection Program must properly wear their respirators wherever the threat to health and safety from airborne contaminants exists. Participants must also maintain his/her equipment as directed.

**Respirator Program**

1. Written standard operating procedures (SOPs) are developed by the Environmental Health and Safety Department (EH&S) and used in the selection, use, and maintenance of respiratory equipment at Binghamton University. These procedures may only be amended by EH&S.

2. Only Mine Safety and Health Administration/National Institute for Occupational Safety and Health (MSHA/NIOSH)-certified respirators are selected and used. The selection is based on hazard exposure.
3. All users are instructed in respiratory protection and trained in the proper selections, use, and maintenance of a respirator. Instruction and training includes: rights and responsibilities; types of respirators and their operation; hands-on orientation with a respirator type; fitting instructions and practice; testing the face-to-face piece seal; wearing it in normal air for a long familiarity period; and wearing it in a test atmosphere. Instruction and training is provided annually by EH&S.
4. Persons with beard growth, long sideburns, a skullcap that projects under the face piece, temple pieces on glasses, or any other condition that prevents a good face seal should not be allowed to use a respirator.
5. To assure proper protection, the user will check the face piece fit every time the respirator is put on. This is accomplished by performing the positive and negative pressure fit check (some types not applicable e.g., positive-air pressure respirator).
6. Respirators are regularly cleaned and disinfected. Those assigned to individuals will be cleaned after each day's use, at minimum.
7. Respirators are routinely inspected. Worn, damaged, or deteriorated parts identified during inspection must be corrected before the equipment is used again. Respirators used frequently may be inspected during cleaning. Emergency equipment, such as self-contained breathing apparatus (SCBA)'s or respirators stored for long periods should be inspected monthly and after each use.
8. All respirators are sealed in a protective container to prevent equipment damage and contamination. They should be stored in a clean and sanitary location.
9. Department heads and/or supervisors should request the surveillance of work area conditions and degree of employee exposure or stress. Surveillance requests are made to EH&S and a report with recommendations is provided.
10. This program is evaluated regularly by EH&S and may include inspections of respirators used, maintenance records, and real-time industrial hygiene sampling.
11. Persons are not assigned to tasks requiring the use of respirators unless it has been determined that they are physically able to perform the work and use the equipment. A medical professional from UHS makes this determination based on a physical examination, pulmonary function test (spirometry), work history, and if deemed necessary, a baseline chest x-ray.
12. Persons who voluntarily use a respirator (where not required) for personal comfort are informed of their rights and the limitations of respirators according to appendix D of the Resp. Std.1910. 134.

- ii) Describe programs of medical clearance, fit-testing, and training in the proper use and maintenance of respirators.

Medical clearance is attained through [REDACTED]. All users are instructed in respiratory protection and trained in the proper selection, use, and maintenance of a respirator. Instruction and training includes: rights and responsibilities; types of respirators and their operation; hands-on orientation with a respirator type; fitting instructions and practice; testing the face-to-face piece seal; wearing it in normal air for a long familiarity period; and wearing it in a test atmosphere. Instruction and training is provided by EH&S annually.

Persons with beard growth, long sideburns, a skullcap that projects under the face piece, temple pieces on glasses, or any other condition that prevents a good face seal should not be allowed to use a respirator. To assure proper protection, the user will check the face piece fit every time the respirator is worn. This is accomplished by performing the positive and negative pressure fit check (some types not applicable e.g., positive-air pressure respirator).

Respirators are regularly cleaned and disinfected. Those assigned to individuals are cleaned minimally after each day's use.

Respirators are routinely inspected. Worn, damaged, or deteriorated parts identified during inspection must be corrected before the equipment is used again. Respirators used frequently may be inspected during cleaning. Emergency equipment, such as SCBA's or respirators stored for long periods should be inspected monthly and after each use. All respirators will be sealed in a protective container to prevent equipment damage and contamination. They should be stored in a clean and sanitary location.

N95 masks are provided to [REDACTED] who choose to wear them. Other personnel working in the facility may wear masks. Personnel are instructed to watch the manufacturer's training video on donning, fit testing, doffing, and replacing the mask/respirator. Example:

<https://www.youtube.com/watch?v=Vw2cINgte3c>

- iii) Describe how such respiratory protective equipment is selected and its function periodically assessed.

Only Mine Safety and Health Administration/National Institute for Occupational Safety and Health (MSHA/NIOSH)-certified respirators are selected and used. The selection is based on the hazard exposure. A routine inspection of the respirator is made. Worn, damaged, or deteriorated parts identified during inspection must be corrected before the equipment is used again. Respirators used frequently may be inspected during cleaning. Emergency equipment, such as SCBA's or respirators stored for long periods should be inspected monthly and after

each use. This program is evaluated by EH&S and may include inspections of respirators used, maintenance records, and real-time industrial hygiene sampling.

Other masks/respirators are selected by the laboratory or department for use with advice from EH&S or the medical professionals [REDACTED].

Function is assessed by the individual each time the mask/respirator is worn, per the manufacturer's instructions.

f) Heavy Equipment and Motorized Vehicles

- i) Provide a general list of the types of [REDACTED] used, such as [REDACTED] and [REDACTED]. Describe training programs, informational signage, and other program policies designed to ensure personnel safety when working with such equipment.
- Note:* Details of specific equipment installed in [REDACTED] are to be provided in **Appendix 15** (Facilities and Equipment for Sanitizing Materials).

There are two [REDACTED]. There is [REDACTED] and one single door [REDACTED]. There is one single door [REDACTED]. Training programs for [REDACTED] are conducted by company representatives, and the [REDACTED]. Standard operating procedures (sop) describe operation, safety, and maintenance, and are reviewed by personnel at staff meetings or in-service trainings. Safety signage is located inside the [REDACTED] and sops are posted near the equipment for quick reference.

- ii) List other heavy equipment such as scrapers, tractors, and farm machinery (manufacturer name, model numbers, etc. are not necessary). Describe training programs, informational signage, and other program policies designed to ensure personnel safety when working with such equipment.
- Note:* If preferred, this information may be provided in a Table or additional Appendix.

There are no scrapers, tractors or farm machinery. [REDACTED] in the [REDACTED] is used by the [REDACTED] provides individualized training and safety instruction for [REDACTED] personnel to use it.

- iii) If motorized vehicles are used for animal transport, describe how the driver is protected from exposure to hazards such as allergens or zoonoses and decontamination methods employed. Also

describe instances where vehicles may be shared between [REDACTED] and passenger transport.

[REDACTED] collected in the field, and [REDACTED] raised at [REDACTED] are transported in either the [REDACTED] or personal vehicles. Plastic containers or buckets with fitted lids are used to protect the [REDACTED] and prevent water from spilling in the vehicle. Personnel and [REDACTED] travel in the same vehicle. Spills are wiped up with bleach germicidal wipes and disposed in public waste containers.

- g) Describe safety procedures for using [REDACTED] including how waste [REDACTED] are scavenged.

[REDACTED] have an oxygen manifold system that is maintained by [REDACTED]. Weekly, the [REDACTED] checks each manifold for oxygen consumption and operation, changing empty oxygen tanks according to the EH&S Lab Safety Manual. [REDACTED] provided [REDACTED] to all of the [REDACTED]. Closed pin index filling devices are used to prevent spills/splashes. Users are trained [REDACTED] on safe [REDACTED] use, [REDACTED] operation, and the waste gas monitoring program. In the [REDACTED] and [REDACTED] is scavenged mechanically by hose or snorkel into the exhaust system. When not using the [REDACTED] some labs use a charcoal f/air canister weighed before use to scavenge [REDACTED].

### iii. Animal Experimentation Involving Hazards [Guide, pp. 20-21]

- 1) List, according to each of the categories noted below, hazardous or potentially hazardous agents currently [REDACTED] that are or will be maintained for more than a few hours following exposure. If the hazardous agent cannot be listed by name for security/proprietary reasons, identify it by the general category of agent and level of hazard. *Note:* If preferred, this information may be provided in a Table or additional Appendix.
  - a) Biological agents, *noting hazard level* (CDC Biohazard Level, Directive 93/88 EEC, CDC or USDA/DHHS Select Agent, etc.). Examples may include bacteria, viruses, viral vectors, parasites, human-origin tissues, etc.

--



Biologic agents					
Biohazard level	Bacteria	Viruses	Viral Vectors	Parasites	Tissue of human/mouse origin
1			Replicant deficient [REDACTED]		
1			[REDACTED]		[REDACTED] cells
2			[REDACTED]		
1		Adeno-associated virus			
1				Echinostoma spp.	
2			[REDACTED]		
2			[REDACTED] generation		
1			[REDACTED]		
1			[REDACTED]		
1			[REDACTED]		[REDACTED]
2	Streptococcus spp.				
2					[REDACTED]
1					[REDACTED]
2	Borrelia burgdorferi				

- b) Chemical agents, *noting general category* of hazard (toxicant, toxin, irritant, carcinogen, etc.). Examples may include streptozotocin, BrdU, anti-neoplastic drugs, formalin, etc.

Chemical Agents			
Toxicant	Toxin	Irritant	Known/Suspected Carcinogen/Teratogen
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

[illegible]



Toxicant	Irritant		



c) Physical agents (radiation, UV light, magnetic fields, lasers, noise, etc.).

Physical agents		
Radiation	Laser	Noise

- 2) **Experiment-Related Hazard Use** [*Guide*, pp. 18-19; See also Chapters 2 and 3 in *Occupational Health and Safety in the Care and Use of Research Animals*, NRC 1997].

*Note:* Written policies and standard operating procedures (SOPs) governing experimentation with hazardous biological, chemical, and physical agents

should be available during the site visit.

- a) Describe the process used to identify and evaluate experimental hazards. Describe or identify the institutional entity(ies) responsible for ensuring appropriate safety review prior to study initiation.

Experimental hazards are identified in the protocol application form and are reviewed by [REDACTED]. Before [REDACTED] approves a [REDACTED] that includes biohazards or radiation safety hazards, it must be reviewed by the IBC or RSC. Information from these reviews is used to develop a plan to manage the risk with the [REDACTED]. The [REDACTED] [REDACTED] and review substances used for chemical and other hazards. All of these reviews occur before study initiation.

- b) Describe how risks of these hazards are assessed and how procedures are developed to manage the risks. Identify the institutional entity(ies) responsible for reviewing and implementing appropriate safety or containment procedures.

Questions in [REDACTED] and reviews by the IBC, RSC, BSO & [REDACTED] write a plan to manage the risks identified. During [REDACTED] [REDACTED] may contribute information, practices or procedures for the [REDACTED] to consider before finalizing the risk management plan.

- c) Describe the handling, storage, method and frequency of disposal, and final disposal location for hazardous wastes, including infectious, toxic, radioactive carcasses, bedding, cages, medical sharps, and glass.

Binghamton University is regulated as a Large Quantity Generator (LQG) of hazardous wastes. A "Satellite Accumulation Area" is an area where hazardous wastes are generated and stored before being moved to the campus 90-day central storage area. [REDACTED] [REDACTED] and laboratories where hazardous waste is generated. Hazardous waste can be accumulated in a Satellite Accumulation Area if the following requirements are met: 1) A generator can accumulate up to 55 gallons of hazardous waste or one quart of acutely hazardous waste (P-listed), before having to be removed to the 90-day central storage area. 2) Hazardous waste must be stored at or near the point of generation and under the control of the person who generated the waste. NOTE: EH&S requires the Satellite Accumulation Area to be in the lab of generation. Hazardous waste must be kept in the same room. Under the hazardous waste regulations, you cannot move a container of hazardous waste from one room to another room, down a hallway, to another building, etc. Keep hazardous waste stored at or near the point of generation. Hazardous waste must be properly labeled. ALL

containers of hazardous waste MUST be labeled with a yellow "Hazardous Waste" sticker and with a completed hazardous waste chemical tag listing all constituents in the waste container. EH&S has distributed rolls of yellow stickers that say "Hazardous Waste" for this purpose. The Hazardous Chemical Waste Tag must also be present on each container. ALL containers of hazardous waste MUST be kept closed except when adding removing waste. Hazardous waste must be stored in containers that are compatible with the waste being stored and be free of cracks and leaks. If a container is leaking or in poor condition, then place the degraded container into an "overpack" container such as a 1-gallon plastic jar. After a hazardous waste container becomes full, contact EH&S to schedule a waste pick up. It is recommended that hazardous waste be accumulated in containers large enough to hold the waste being generated, yet small enough so the container can be filled quickly and easily carried for removal. Hazardous waste pickups are held once every two weeks. Biohazardous and radioactive waste is collected and disposed of by EH&S by contacting their office.

- d) Describe aspects of the medical evaluation and preventive health program specifically for personnel potentially exposed to hazardous agents.

The health forms ask questions relative to pregnancy and compromised immunity. [REDACTED] may recommend a medical evaluation of personnel potentially exposed to a hazardous agent, either at the [REDACTED] or a primary care physician.

**3) Hazardous Agent Training for Personnel [Guide, p. 20]**

Describe special qualifications and training of staff involved with the use of hazardous agents [REDACTED]

[REDACTED]

**4) Facilities, Equipment and Monitoring [Guide, pp. 19-20]**

- a) Describe locations, rooms, or facilities used [REDACTED] exposed to hazardous agents. Identify each facility according to the hazard(s) and containment levels (if appropriate).

*Note:* If preferred, information may be provided in a Table or additional

## Appendix.

In [REDACTED] hazardous chemicals and biologics are stored in the wet lab areas, and [REDACTED]. Chemicals & biologics are used in the procedure spaces, [REDACTED] per [REDACTED]. The [REDACTED] used in procedure rooms on the [REDACTED]. The [REDACTED] is used in [REDACTED]. [REDACTED] feed is used in holding room [REDACTED]. Toxins used [REDACTED] are stored and used in [REDACTED] or [REDACTED].

- b) Describe circumstances and conditions where [REDACTED] are housed in rooms outside of dedicated containment facilities (i.e., in standard [REDACTED] rooms). Include practices and procedures used to ensure hazard containment.

Rooms with radioactive substances or compressed gas are labelled on the doors. In [REDACTED]s being used, there are instructions on the doors for entering and exiting, including wearing lead ppe, using a Geiger counter to survey the room and maintaining radioactive waste in the room until decayed. Only lab personnel and [REDACTED] with radiation monitoring badges are permitted in the room during the period of radioactivity. In [REDACTED], alternate [REDACTED] are [REDACTED] are marked with the hazard. Wearing safety glasses, lab coat, N95 mask & gloves, [REDACTED] may be performed by trained lab personnel during the [REDACTED]. [REDACTED] may be red bagged for hazardous waste disposal, and [REDACTED] may be [REDACTED] in a [REDACTED] station with a liner. The liner bag is tied for routine disposal by [REDACTED] requires a red bag liner, EH&S will pick up the hazardous waste. [REDACTED] are contained in one [REDACTED] and [REDACTED] are used in [REDACTED] in dedicated procedure rooms.

- c) Describe special equipment related to hazard containment; include methods, frequency, and entity(ies) responsible for assessing proper function of such equipment.

Methods to contain hazards include: hazardous waste containers described by the EH&S guidelines, a lead 'pig' or container for radioactive waste, red bags with or without a cardboard box labelled for regulated medical waste, and red 'sharps' containers. There is a plexiglass panel that prevents [REDACTED] from reaching into the x-ray fan beam. Laboratory personnel, [REDACTED] check the integrity and capacity of the chemical, biologic and sharps waste containers, contacting EH&S personnel for disposal, and advice as needed. Lab personnel are responsible for the

integrity of the [REDACTED] Waste collected during radioactive bandaging is surveyed by lab personnel, the [REDACTED] before removing it from the point of generation. EH&S conducts regular laboratory safety audits to ensure compliance [REDACTED] assesses the function of the [REDACTED] station used in the [REDACTED] before each use. PIs are responsible for checking the [REDACTED] [REDACTED] before each use.

- d) Describe the [REDACTED] practices in place to ensure personnel safety, including any additional personnel protective equipment used when work assignment involves hazardous agents.

Hazard containment to a specific room is practiced. Signage on the door(s) of the room indicate entry and exit procedures. PPE may include: N95 masks, goggles, specific types of disposable gloves, disposable lab coats, Tyvek suits, shoe/boot covers, hair covers, lead aprons, lead gloves, plexiglass shielding, and badge monitors for radiation and [REDACTED] exposure. [REDACTED] provides a variety of different hearing protection (foam and molded ear plugs, ear muffs, noise cancelling head phones) for personnel to use [REDACTED]

- e) Incidental [REDACTED] Contact and Patient Areas

- i) List and describe facilities that may be used for both [REDACTED] and human-based [REDACTED] patient areas, including the policies and procedures for human patient protection, facility decontamination, [REDACTED] common corridors or elevators, and other personnel protection procedures.

There are no facilities used for [REDACTED] and human-based research.

- ii) Describe any *other* circumstances in which [REDACTED] equipment are [REDACTED] common use corridors or elevators (e.g., have the potential to come in contact with individuals not associated [REDACTED]), and measures taken to mitigate risks associated with such use.

[REDACTED] to the labs in either [REDACTED] through common use corridors and elevators. Keeping the [REDACTED] lids secured and the outside of the [REDACTED] dry, decreases any exposure risk.

## B. Program Oversight

### 1. The Role of the [REDACTED] [Guide, pp. 24-40]

#### a. [REDACTED] Composition and Function [Guide, pp. 17; 24-25]

Please provide a Committee roster, [REDACTED]  
[REDACTED] (e.g., Department/Division) as **Appendix 7**.

##### i. Describe Committee membership appointment procedures.

[REDACTED]  
[REDACTED] individuals with committee service information and discusses the appointment. If the candidate verbally agrees, an official appointment letter is sent with the agreed appointment term. [REDACTED]  
[REDACTED] of term expirations and expected renewals.

##### ii. Describe frequency of Committee meetings. Note that **Appendix 8** should [REDACTED] meeting minutes.

The [REDACTED] meets 12-14 times per year. Meetings are scheduled monthly, and occasionally, additional meetings are called by the Chairperson.

##### iii. Describe the orientation, training, and continuing education opportunities for [REDACTED] [Guide, p. 17]

All members are initially contacted by the [REDACTED] for orientation. [REDACTED] provides information on: the types of research conducted, [REDACTED] regulators & accreditors, our Committee membership & schedule, and instructions for accessing and receiving electronic information/communication. Hard copies of the Guide, PHS Policy and the AVMA Guidelines are provided. Additionally, all members are required to take the [REDACTED] [REDACTED] and have either attended or are encouraged to attend an [REDACTED] [REDACTED] and/or other related workshop/conference. Members are invited to all webinars sponsored [REDACTED] [REDACTED] however, there is no requirement preventing their immediate participation.

#### b. [REDACTED] [Guide, pp. 25-27]

A blank copy of your institution's [REDACTED] form should be provided as **Appendix 9**. Also include forms used for [REDACTED]  
[REDACTED] c., as applicable.

##### i. Describe the process for [REDACTED] Include descriptions of how:

- Note: Make sure you address each of the items above.*

Obtained by Rise for Animals.  
Uploaded to Animal Research Laboratory Overview (ARLO) on 01/30/2021



[REDACTED]

[REDACTED]



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

• [REDACTED]  
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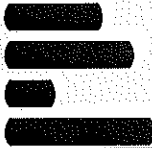
















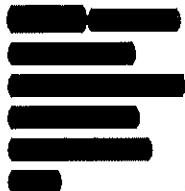


[REDACTED]
















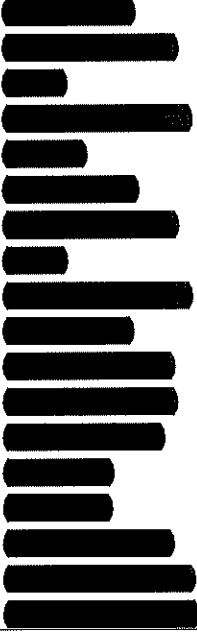


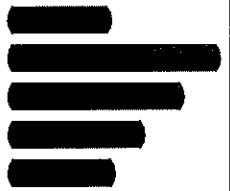


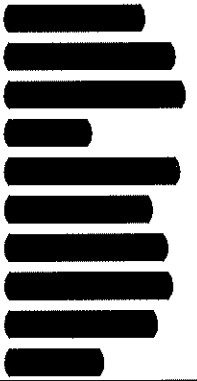

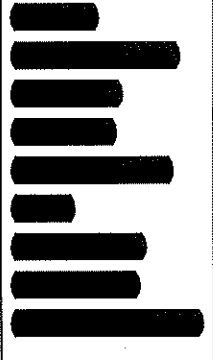
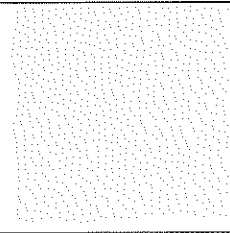
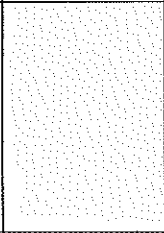
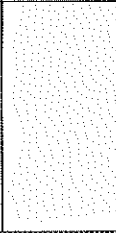
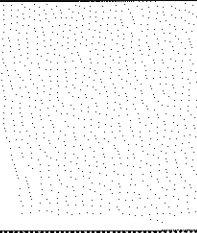
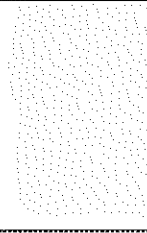
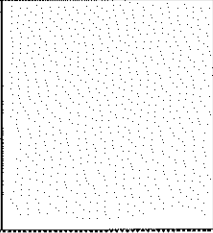
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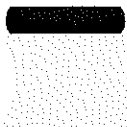
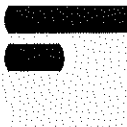
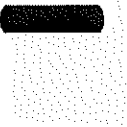
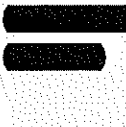




















[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]


**vi. Use of Non-Pharmaceutical-Grade Drugs and Other Substances** [*Guide*, p. 31]

Describe the regarding the justification for using non-pharmaceutical-grade drugs or other substances, if applicable.



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- 1) Describe [REDACTED] and oversight of, [REDACTED] (i.e., on multiple teaching or research protocols).

[REDACTED]

- 2) Briefly describe the types of activities currently approved that involve the reuse of individual [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] directed training programs.  
-Protocol collaborations where one lab is more experienced at performing certain procedures, or using a specific age group. [REDACTED]  
[REDACTED]  
[REDACTED]

- 3) [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

## 2. Post-Approval Monitoring [Guide, pp. 33-34]

- a. [REDACTED] review of ongoing studies and periodic [REDACTED] (e.g., annual, biennial, triennial, or other frequency).

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- b. Describe the process and frequency with which [REDACTED] reviews the [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

c. Describe the process and frequency with which [REDACTED]

- [REDACTED]
- [REDACTED]

[REDACTED]

d. If applicable, summarize deficiencies noted during external regulatory inspections within the past three years (e.g., funding agencies, government, or other regulatory agencies) and describe institutional responses to those deficiencies. *Note:* Copies of all such inspection reports (if available) should be available for review by the site visitors.

Regulatory inspection reports have not noted deficiencies.

e. Describe any other monitoring mechanisms or procedures used to facilitate [REDACTED] if applicable.

[REDACTED]

### 3. Investigating and Reporting [REDACTED]

[REDACTED]

[REDACTED]

#### 4. Disaster Planning and Emergency Preparedness [Guide p. 35]

Briefly describe the plan for responding to a disaster potentially impacting the animal care and use program:

- Identify those institutional components and personnel which would participate in the response.
- Briefly describe provisions for [REDACTED] and minimizing impact to [REDACTED]

*Note:* A copy of disaster plan(s) [REDACTED] must be available for review by the site visitors.

The Emergency Preparedness Plan [REDACTED] identifies the [REDACTED] and [REDACTED] as emergency contacts and persons responsible to act and lead the response. [REDACTED] are deemed essential and critical to University operations, and are provided with a sticker for their University identification cards allowing them access to public roadways and campus during an emergency. PIs contribute lists of equipment and resources [REDACTED] their location and plan for recovery. [REDACTED] in place or relocation if a secure, clean space with temperature and humidity control, light control and no noise is identified. [REDACTED] In case of emergency, for [REDACTED]

## II. [REDACTED] Environment, Housing and Management

*Note:* Complete each section including, where applicable, procedures performed in farm settings, field studies, aquatic environments, etc.

A. [REDACTED]

*Note:* [REDACTED] details regarding mechanical system construction and operation is requested in Section IV.B.5. and **Appendix 11**; current (measured ***within the last 12 months***), detailed (by room) performance data must also be provided as indicated in **Appendix 11**.

1. Temperature and Humidity [*Guide*, pp. 43-45]

- a. Describe the methods and frequencies of assessing, monitoring, and documenting that [REDACTED] temperature and humidity is appropriate [REDACTED]

*Note:* If preferred, this information may be provided in a Table or additional Appendix.

[REDACTED] was built with a [REDACTED] that is monitored and controlled by the [REDACTED]. [REDACTED] is equipped with two air handling units (AHUs) each capable of 75% of total building demand. These AHUs bring in 100% fresh air to the buildings through a set of pre-filters and a final HEPA filter. Incoming air is heated / air conditioned / dehumidified / or humidified to the temperature and humidity set points as controlled [REDACTED]. Additional temperature adjustments are made by variable air volume (VAV) controls that serve individual or [REDACTED] to maintain desired air change rates and room temperatures. All HVAC equipment for this building including the heating and cooling systems is tied to emergency power. The building chilled water system is also backed up by chilled water supply from the adjacent [REDACTED]. An emergency hot water boiler was installed to provide building heat in the event that the regular heating system (centrally supplied high temperature hot water) is unavailable. Temperature, humidity and air change rates in [REDACTED] are continuously monitored by the campus's BAS. In the event that these controlled parameters fall outside of acceptable range, an alarm will be automatically generated to alert our 24-hour Monitor Board followed by appropriate response by our [REDACTED] staff record the temperature and humidity of each [REDACTED] room on a daily basis on the room Activity Log located on the wall of each [REDACTED] room. If there is an issue with temperature or humidity, the [REDACTED] [REDACTED] verification with the BAS, investigation and corrective action. The labs in [REDACTED] are monitored daily by lab personnel checking temperature and humidity gauges for [REDACTED]. [REDACTED] is monitored twice daily by lab personnel checking a temperature gauge [REDACTED].

- b. List, by [REDACTED] set-points and daily fluctuations considered acceptable for [REDACTED] temperature and relative humidity.

*Note:* If preferred, this information may be provided in a Table or additional

Appendix. [Guide, pp. 44 and 139-140]

point is 70 degrees Fahrenheit, with acceptable fluctuations between 68 and 79 degrees Fahrenheit. Relative humidity fluctuates between 30 and 70%, with a set point of 50%.

housed indoors in the set point is 72F, with acceptable fluctuations between 59 and 84F. have not been housed in the because thermal buoyancy has been inadequate to prevent internal temperatures higher than 84F.

housed at room temperature is maintained between 64 and 72F.

- c. Temperature set-points in rooms and/or environmental conditions are often outside of the thermoneutral zone. Describe the process for enabling behavioral thermoregulation or other means used to ensure that can control their thermoregulatory environment. Include a description of if applicable. [Guide, p. 43]

Behavioral thermoregulation is accomplished by providing

2. Ventilation and Air Quality [Guide, pp. 45-47]

- a. Describe the methods and frequencies of assessing, monitoring, and documenting the ventilation rates and pressure gradients (with respect to adjacent areas).

Note: If preferred, this information may be provided in a Table or additional Appendix.

Air change rates are continuously monitored by the BAS based on air flow measured at the VAV boxes serving these rooms. The pressure gradient between and adjacent area is automatically controlled by the BAS which is programmed to maintain a fixed amount of CFM between supply and exhaust VAV boxes. Monthly provides a ventilation report, indicating the current room air exchanges and pressure gradients for

- b. Describe ventilation aspects of any special primary enclosures using forced ventilation.

Not Applicable.

- c. If any supply air used in a room or primary enclosure is recycled, describe the percent and source of the air and how gaseous and particulate contaminants are removed.

Room air is not recycled [REDACTED]

**3. Life Support Systems for [REDACTED] [Guide, pp. 84-87]**

- a. Provide a general description of institutional requirements for enclosures using water as the primary environmental medium [REDACTED]

A [REDACTED] are held in 6ft. diameter, semi-natural pools filled with 100L of [REDACTED] at densities similar to those found in the wild, generally, [REDACTED]. Pools are covered using [REDACTED] to prevent [REDACTED]. Pools contain zooplankton which consume bacteria & prevent the water from fouling. [REDACTED] and [REDACTED] will also be held in groups of [REDACTED] with the same water quality. In the [REDACTED] held in [REDACTED], [REDACTED], 1.5L containers filled with 1L of water solution, 14L containers filled with 7L of water solution, or 15L containers filled with 10L of water solution. [REDACTED] are monitored daily, or more often in the lab [REDACTED].

- b. Provide a general description of overall system(s) design, housing densities, and water treatment, maintenance, and quality assurance that are used to ensure [REDACTED]

*Note:* Facility-specific tank design and parameter monitoring frequencies should be summarized in **Appendix 12** [REDACTED]

[REDACTED] is at ambient temperature to simulate natural conditions. Weekly water quality measurements include: pH, (6.5-8.5), Dissolved Oxygen, (>80% saturation), temperature, (8-25 degrees C), and turbidity. [REDACTED] at densities similar to those found in the wild [REDACTED] are held in groups of 50/100L of water [REDACTED] densities for each container will be: [REDACTED]. Water changes will be completed every 48 hours. Water is at room temperature, (59-84F), and pH, dissolved oxygen and turbidity may fall outside the accepted range [REDACTED].

**4. Noise and Vibration [Guide, pp. 49-50]**

Describe facility design features and other methods used to control, reduce, or prevent excessive noise and vibration in the [REDACTED]

Light ballasts that do not emit high frequency noise are installed [REDACTED]  
Automatic door-closers are installed in the [REDACTED] Each [REDACTED]  
[REDACTED]  
further reducing noise. The [REDACTED]  
limiting noise around the [REDACTED] and procedure rooms. Fire alarms [REDACTED]  
[REDACTED] and procedure areas do not emit sound, they produce a strobe light when activated.  
Design features that limit excessive vibration include: air handling fans that are [REDACTED]  
[REDACTED] and are fitted with dampers; the [REDACTED]  
[REDACTED]

**B.** [REDACTED]

## 1. Primary Enclosures

*Note:* A description of primary enclosures used [REDACTED]  
[REDACTED]  
[REDACTED] should be included in **Appendix 13**.

- a. Describe considerations, performance criteria and guiding documents (e.g. *Guide*, *Ag Guide*, ETS 123 and/or other applicable standards) [REDACTED]  
[REDACTED] to verify adequacy of space provided for [REDACTED]

[illegible]



[REDACTED]

- b. Describe space exceptions to the guiding documents (*Guide*, *Ag Guide*, ETS 123, and/or applicable standards), indicating the references, considerations and performance criteria used [REDACTED] provided for all animal species covered by the program. [*Guide*, pp. 55-63]

[REDACTED]

**2. Environmental Enrichment, Social, and Behavioral Management** [*Guide*, pp. 52-55; 63-65; *Ag Guide*, Chapter 4]

**a. Environmental Enrichment**

- i. Describe the structural elements of the environment of primary enclosures that may enhance [REDACTED]

[REDACTED]

- ii. Describe nonstructural provisions [REDACTED]

[REDACTED]

[REDACTED]

**b. Social Environment** [*Guide*, p. 64]

- i. Describe institutional expectations or strategies for social housing [REDACTED]

[REDACTED]

- ii. Describe exceptions to these expectations (e.g., veterinary care, social incompatibility) and other typical justification [REDACTED]

[REDACTED]

[REDACTED]

- iii. Describe steps taken with isolated or individually [REDACTED] compensate for the absence [REDACTED] (interaction with humans, environmental enrichment, etc.).

[REDACTED]

- c. **Enrichment, Social and Behavioral Management Program Review** [*Guide*, pp. 58, 69]

Describe how enrichment programs and exceptions to social housing of social [REDACTED] are regularly reviewed to ensure that they are beneficial to [REDACTED] and consistent with the goals of [REDACTED]

[REDACTED]

- d. **Procedural Habituation and Training of Animals** [*Guide*, pp. 64-65]

Describe how [REDACTED] are habituated to [REDACTED] or experimental procedures, when possible, [REDACTED] with their environment by reducing stress associated with novel procedures or people.

An acclimation period of at least 3 days is used for [REDACTED] and [REDACTED]  
[REDACTED] A training/acclimation period of at least 5 days is used for  
[REDACTED]

**e. Sheltered or Outdoor Housing** [Guide, pp. 54-55]

- i. Describe the environment (e.g., barn, corral, pasture, field enclosure, flight cage, pond, or island).

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- ii. Describe methods used to protect [REDACTED] from weather extremes, predators, and escape (windbreaks, shelters, shaded areas, areas with forced ventilation, heat radiating structures, access to conditioned spaces, etc.).

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- iii. Describe protective or escape mechanisms [REDACTED] how access to food and water is assured, provisions for enrichment, and [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

**f. Naturalistic Environments** [Guide, p. 55]

- i. Describe types of naturalistic environments (forests, islands) and [REDACTED] are monitored for [REDACTED] well-being (e.g., overall health, [REDACTED])

Not Applicable.

- ii. Describe how food, water, and shelter are provided.

Not Applicable.

- iii. Describe how [REDACTED]

[REDACTED] are used [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] or by cloth mesh dip nets [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] placed separately in 5-gallon buckets filled with  
2-gallons of pond water [REDACTED] only [REDACTED] during  
[REDACTED] and are held in [REDACTED]  
[REDACTED]  
[REDACTED] are placed individually in labelled [REDACTED] and  
[REDACTED] in a [REDACTED] with as many as [REDACTED]  
[REDACTED]

## C. Animal Facility Management

### 1. Husbandry

#### a. Food [Guide, pp. 65-67]

- i. List type and source of food stuffs.

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] foods are  
distributed by [REDACTED]  
Foods fed by [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] (from the population at [REDACTED] are [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

ii. Describe feed storage facilities, noting temperature, relative humidity, and [REDACTED] control measures, and container (e.g., bag) handling practices, for each of the following:

- vendors (if more than one source, describe each)
- centralized or bulk food storage facilities if applicable
- animal facility or vivarium feed storage rooms
- storage containers within animal holding rooms

**[REDACTED] Storage and Handling:**  
Their 30,000 square foot warehouse is made of steel and masonry, used exclusively for the distribution of animal supplies. Food is stored on metal pallet racks 18 or more inches from the walls, and distributed via date of receipt and lot number to track each bag to destination. Broken or damaged bags are isolated from the main stock before removal. Food is held between 50 and 80 degrees Fahrenheit with an average of 50% humidity. Food older than 180 days is removed from inventory. Pest control is provided by a local commercial service that inspects and reports monthly. As a certified [REDACTED] annual inspections by [REDACTED] [REDACTED] and regularly by the International Organization for Standardization (ISO) are held.

**[REDACTED] and Handling:**  
Sealed floors in their warehouse are painted with an 18-inch-wide border ensuring food pallets do not contact walls. Their delivery vehicles are cleaned with a chlorine-dioxide based disinfectant after every use. [REDACTED] control is provided daily by [REDACTED] and supplemented by an independent pest control vendor weekly at the feed mill, and monthly at distribution centers. Food storage areas are climate controlled, where temperature does not exceed 70 degrees Fahrenheit, and humidity is kept at 55% or lower.

[REDACTED] report their food is produced and stored at [REDACTED] according to the conditions described above.

[REDACTED] report their feed is stored, and/or produced in areas that have temperature and vermin control measures before sold to commercial stores.

Feed bags are placed on plastic pallets, and room temperature does not exceed 80 degrees Fahrenheit, with an average humidity below 50%. In holding rooms, food is stored in [REDACTED] with the mill date affixed to the [REDACTED] are stored in their original containers in a refrigerator in the [REDACTED] and fed from a small container. The [REDACTED] stored in its original container in a refrigerator in the hall near [REDACTED] and fed from a small container. [REDACTED] is stored in 1kg vacuum sealed packages in [REDACTED] [REDACTED] is stored in the original container with a tight fitting lid in the building at the [REDACTED] The [REDACTED] is labelled with the date of opening, and the expiration date. [REDACTED] is kept in its original container in the [REDACTED] Opening & expiration dates are marked on the [REDACTED]

- iii. Describe special food preparation areas, such as feedmills and locations where special diets are formulated, if applicable. Include in the description sanitation and personnel safety practices (noting that respiratory protection is described in Section 2.1.A.2.b. ii. Standard Working Conditions and Baseline Precautions above).

Not Applicable.

- iv. Describe how food is provided to [REDACTED] (*ad libitum*, limited amounts, types of feeders).

[REDACTED] fill food barrels from the main stock. Using food scoops, [REDACTED] [REDACTED] are filled for ad-lib consumption. Labs using special feed use a special [REDACTED] card to identify cages with alternative foods. Lab members fill the food [REDACTED] for ad-lib consumption, or measured amount per approved protocol. [REDACTED] are fed [REDACTED] In [REDACTED] housed for more than 48 hours, locally sourced wild [REDACTED] are provided for food.

- v. Describe special food quality control procedures including procedures for rotating stock, monitoring milling dates, nutritional quality, bio load, chemical contaminants, etc.

The oldest food in stock is used first. Mill dates are monitored to ensure food is used within 12 months of the mill date. Special [REDACTED] are purchased in small amounts and expiration dates are monitored by the lab, and inspected during [REDACTED] is purchased in the spring before each research season at local stores. Expiration dates are monitored by the lab and inspected on [REDACTED]

**b. Drinking Water** [*Guide*, pp. 67-68]

- i. Describe the water source, treatment or purification process, and how it is provided (e.g., bowls, bottles with sipper tubes, automatic watering, troughs, ponds, streams).

[Redacted text block]

- ii. Describe methods of quality control, including monitoring for contaminants.

[Redacted text block]

- iii. If automatic water delivery systems are used, describe how they are maintained and sanitized.

Not Applicable.

**c. Bedding and Nesting Materials** [*Guide*, pp. 68-69]

- i. Describe type(s) and how used for [REDACTED]

[REDACTED] are used in static and [REDACTED]  
[REDACTED] come pre-bedded [REDACTED]  
[REDACTED] have both [REDACTED]  
[REDACTED]

- ii. Describe bulk bedding storage facilities, if applicable, including vermin control measures.

Not Applicable.

- iii. Describe quality control procedures, including monitoring for contaminants.

The consistency of [REDACTED] is observed at the time the bag is opened, and during the clean cage set-up procedure. Samples are sent [REDACTED] if quality is questioned during observation.

**d. Miscellaneous [REDACTED] Use Equipment**

- i. Describe motorized vehicles and other equipment (e.g., trailers) used for transporting [REDACTED] noting the type and how the cargo compartment is environmentally controlled, if applicable.

[REDACTED] are transported to the lab in 5 gallon covered containers with well water in the temperature [REDACTED] temperature controlled vehicle.

- ii. Describe other [REDACTED] related equipment used in the [REDACTED] program (specialized equipment for exercise or enrichment, high pressure sprayers, vacuum cleaners, tractors, trailers, spreaders, etc.).

Three electronic temperature controlled, automatic turn [REDACTED] with central water reservoirs and clear domed lids were used for [REDACTED]  
Stainless steel foggers are used to disinfect [REDACTED] Larger spaces, including [REDACTED] have been decontaminated with a [REDACTED]  
[REDACTED]  
[REDACTED] is used for sterilizing [REDACTED] supplies and equipment. [REDACTED] A Nobles® floor scrubber is used to clean the Stonhard® floor.

**e. Sanitation [Guide, pp. 69-73]**



i. Bedding/Substrate Change

- 1) Describe frequency of contact and non-contact [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

- 2) Describe any [REDACTED] to frequencies recommended in the *Guide* or applicable regulations and the criteria used to justify those exceptions.

[REDACTED]  
[REDACTED]

- 3) Note the location where [REDACTED] is removed from [REDACTED]  
[REDACTED]s and where [REDACTED] is placed into the [REDACTED]  
[REDACTED]

[REDACTED] is removed outside of [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] is removed  
[REDACTED]  
Closed [REDACTED] containers of [REDACTED] are located [REDACTED]  
[REDACTED] to add additional [REDACTED]  
[REDACTED]

ii. Cleaning and Disinfection of the Micro- and Macro-Environments

*Note:* A description of the washing/sanitizing frequency, methods, and equipment used should be included in **Appendix 14** (Cleaning and Disinfection of the Micro- and Macro-Environment) and **Appendix 15** (Facilities and Equipment for Sanitizing Materials).

- 1) Describe any [REDACTED] (or applicable regulations) recommended sanitation intervals.

Not Applicable.

2) Assessing the Effectiveness of Sanitation and Mechanical Washer Function

- a) Describe how the effectiveness of sanitation procedures is monitored (e.g., water temperature monitoring, microbiological monitoring, visual inspections).

Visual inspections are done [REDACTED]  
Temperature tape is used [REDACTED]  
items removed from the clean side [REDACTED]  
[REDACTED] Bacillus atrophaeus spore strips  
are plated to verify the effectiveness [REDACTED]

- b) Describe preventive maintenance programs for mechanical washers.

[REDACTED] They are serviced [REDACTED] or as  
needed by a company that specializes [REDACTED]  
[REDACTED]

f. **Conventional Waste Disposal** [Guide, pp. 73-74]

Describe the handling, storage, method and frequency of disposal, and final disposal location for each of the following:

- i. [REDACTED] and refuse.

[REDACTED] and refuse is discarded into dedicated garbage barrels that is  
discarded daily into dumpsters [REDACTED] Dumpsters are emptied daily,  
Monday through [REDACTED]  
County Landfill.

- ii. [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

g. **Pest Control** [Guide, p. 74]

- i. Describe the program for monitoring and controlling pests [REDACTED]  
[REDACTED] Include a description of:
- monitoring devices and the frequency with which devices are checked
  - control agent(s) used and where applied, and

- who oversees the program, monitors devices, and/or applies the agent(s).

██████████ the Institution's pest control contractor to maintain an integrated monitoring and control program ██████████. The program includes: door sweeps, gaskets, and caulking to eliminate openings in doors, walls and ceilings; ██████████ storage disinfection procedures, and mineral oil maintenance in the floor drains. ██████████

██████████  
 ██████████  
 ██████████ and determines if the control program requires modification. A log book is maintained to document ██████████  
 The labs in ██████████ are covered under the Institution's pest control program using ██████████. There is no pest control program at ██████████

- ii. Describe the use of ██████████, if applicable.

Not applicable.

- iii. Note how ██████████ are informed of pesticide use and ██████████ may opt out of such use in specific areas.

Pesticides are not used ██████████. If necessary, ██████████ would be informed before application. Pesticides are not used at ██████████

#### h. Weekend and Holiday ██████████ [Guide, pp. 74-75]

- i. Describe procedures for providing weekend and holiday care. Indicate who ██████████ (students, part-time staff, etc.) provides and oversees care and what procedures are performed.

Our ██████████  
 ██████████ during the weekends and on holidays. The lab using ██████████ provides weekend and holiday ██████████

- ii. Indicate qualifications of weekend/holiday staff if not regular staff.

\_\_\_\_\_ responsible for \_\_\_\_\_ have received training from \_\_\_\_\_/cleaning procedures.

- iii. Describe procedures for contacting responsible \_\_\_\_\_ in case of an emergency.

\_\_\_\_\_ or their designee is usually the contact person \_\_\_\_\_. The \_\_\_\_\_ may be contacted in case of an \_\_\_\_\_ emergency. For \_\_\_\_\_ emergencies the \_\_\_\_\_ are called first. The \_\_\_\_\_ may be called \_\_\_\_\_. Either will contact the \_\_\_\_\_. If the \_\_\_\_\_ is not available, \_\_\_\_\_ will be called.

## 2. Population Management [Guide, pp. 75-77]

### a. Identification

Describe \_\_\_\_\_ identification methods for \_\_\_\_\_

\_\_\_\_\_ identification is \_\_\_\_\_. Most individuals are identified by \_\_\_\_\_ but are generally grouped by age, \_\_\_\_\_ identified by \_\_\_\_\_ and by \_\_\_\_\_ in the lab. \_\_\_\_\_ cage cards are universally used. \_\_\_\_\_ provides a standard identification card. Additionally, \_\_\_\_\_ cards are provided to indicate: \_\_\_\_\_

### b. Breeding, Genetics, and Nomenclature

- i. Describe the program for advising \_\_\_\_\_ on the selection \_\_\_\_\_ based on genetic characteristics.

Advice on \_\_\_\_\_  
References used have included: The \_\_\_\_\_ 2006, NRC publications, various databases, \_\_\_\_\_ consultation with colleagues and approved \_\_\_\_\_ consult with one another and \_\_\_\_\_

- ii. Describe the program for \_\_\_\_\_ on using standardized nomenclature to ensure proper reporting of the identification of the research \_\_\_\_\_ with regard to both the \_\_\_\_\_ or the genetic background of \_\_\_\_\_ in a study.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]  
test negative [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
- source facility health status documentation for the previous 6 months  
- a summary of source facility [REDACTED] for the previous 12 months  
- contact information for the source facility [REDACTED]  
[REDACTED]  
[REDACTED] are collected from authorized [REDACTED] along with  
[REDACTED]

## 2. Transportation [REDACTED]

Describe [REDACTED] between outside sources and the institution and within the institution, including loading, unloading, level of biosecurity, [REDACTED]  
[REDACTED] including [REDACTED] and  
[REDACTED]

[REDACTED] are transported by vendor/supplier vehicles. Inter-institutional transport is provided by [REDACTED]  
[REDACTED]

Specific pathogen and immune status is checked during [REDACTED] and ordering documents with expected delivery dates are [REDACTED]. Receiving documents are checked for congruency with the order document [REDACTED]  
[REDACTED]

[REDACTED] are received [REDACTED]  
[REDACTED] The order form, a clean flat bed and a bottle of [REDACTED]  
[REDACTED] After the order form is checked to match the transporter's forms,

[REDACTED] The containers are not removed from the flat bed. [REDACTED]  
[REDACTED]  
[REDACTED]

Inter-institutional [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

## B. Preventive Medicine

1. **██████████ Biosecurity** [*Guide*, pp. 109-110]

- a. Describe methods used to monitor for known or unknown infectious agents. Note that [REDACTED] specific information [REDACTED] is to be provided below.

[illegible]

- b. Describe methods used to control, contain, or eliminate infectious agents.**

[REDACTED] is designed to concentrate [REDACTED]  
[REDACTED]  
[REDACTED] enters each holding room from the [REDACTED] accessed [REDACTED]  
[REDACTED] enter the [REDACTED] from a corridor off the  
[REDACTED] which is separated by [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED] are generally assigned [REDACTED] near [REDACTED]  
[REDACTED]  
for additional isolation from the secondary environment.  
[REDACTED] are contained in covered shelving units [REDACTED]  
[REDACTED]  
[REDACTED] has access to the [REDACTED]  
[REDACTED] separates clean and dirty equipment moving through [REDACTED]  
storage. [REDACTED]  
[REDACTED]  
clean equipment/supplies are moved through the area the following morning. Any  
clean flatbed or cart moving from [REDACTED] and  
undercarriage sprayed with [REDACTED] before entering the  
[REDACTED]  
Waste [REDACTED] is deposited in a central dumpster [REDACTED]  
that is disposed daily.  
[REDACTED] are installed at the entrance to the [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] has a  
contract with a pest control vendor [REDACTED]  
[REDACTED]  
[REDACTED] using disinfectants [REDACTED]  
Annually, [REDACTED] are dismantled and the non-electronic parts are [REDACTED]  
before putting back in service. The outside of the electronic controls is wiped with  
[REDACTED] in sterile conditions, the [REDACTED]  
[REDACTED] before taking back [REDACTED]  
[REDACTED]  
[REDACTED] are cleaned and stored per  
protocol. [REDACTED] were assembled in the  
[REDACTED] all pieces were [REDACTED]  
were cleaned thoroughly with [REDACTED] before setting up in the  
[REDACTED]

## 2. Quarantine and Stabilization [Guide, pp. 110-111]

### a. Describe the initial [REDACTED]

[REDACTED] that are either AAALAC  
accredited, and/or have been visited [REDACTED] are  
checked before an [REDACTED] is placed to [REDACTED]  
[REDACTED] from other vendors or institutions, [REDACTED]  
reviews at a minimum: source facility health status documentation for the [REDACTED]  
[REDACTED]



and contact information for the source facility [REDACTED]  
establish [REDACTED] are collected as [REDACTED]  
[REDACTED] before collection.

- b. Describe quarantine facilities and procedures for [REDACTED] For each [REDACTED] indicate whether these practices are used for [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED] upon receipt, any health forms that accompanied shipment are reviewed [REDACTED] Unless a disease is reported or a clinical condition is suspected [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Access to the [REDACTED] at the end of the work day, with additional PPE: hair covers, masks, [REDACTED] or disposable lab coats, shoe covers and gloves. [REDACTED] observation, or are released from quarantine [REDACTED] consults with [REDACTED]  
[REDACTED] the most efficient and appropriate tests to use to decrease the health risk [REDACTED]

- c. Describe the required/recommended stabilization period [REDACTED]

The recommended [REDACTED] acclimation for [REDACTED] and a [REDACTED]

### 3. Separation by Health Status [REDACTED] [Guide, pp. 111-112]

- a. Describe the program for the separation [REDACTED]

[REDACTED] If the [REDACTED]  
describe circumstances in which [REDACTED]  
[REDACTED]

Separate [REDACTED]  
[REDACTED]  
[REDACTED] All health records are checked for population compatibility, and [REDACTED] from quarantine until they have [REDACTED] that [REDACTED]  
[REDACTED] share [REDACTED]  
[REDACTED]  
[REDACTED] to maintain genetic diversity and replace [REDACTED]  
All [REDACTED] are reviewed for health status compatibility with the current [REDACTED]

population. [REDACTED] placed in [REDACTED] from the same collection site. [REDACTED] originated from one vendor.

- b. Describe situations where multiple [REDACTED] may be [REDACTED] in the same room, area, or enclosure.

At the [REDACTED] During testing in the lab, [REDACTED]  
[REDACTED]

- c. Describe isolation procedures [REDACTED]

[REDACTED] are available for [REDACTED]  
[REDACTED] In consultation with the [REDACTED] establish quarantine procedures [REDACTED] Experimental procedures are not permitted on [REDACTED] Specific [REDACTED]  
[REDACTED]  
[REDACTED]

## C. Clinical Care and Management [Guide, pp. 112-115]

### 1. Surveillance, Diagnosis, Treatment and Control of Disease [Guide, pp. 112-113]

- a. Describe the procedure(s) for daily observation of [REDACTED]  
[REDACTED]
- the observers' training for this responsibility
  - [REDACTED] (written or verbal)
  - [REDACTED] for ensuring [REDACTED] in a timely manner.

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

- b. Describe methods of communication between [REDACTED]  
[REDACTED]

[REDACTED]

- c. Describe the preventive medicine and health management/monitoring programs (e.g., physical examination, TB testing, vaccination, hoof/nail trimming, teeth cleaning/floating, vendor surveillance, [REDACTED])

[REDACTED]  
[REDACTED] Vendors are evaluated [REDACTED] through on-site visits, routine evaluation of their publicized health monitoring reports, and [REDACTED]  
[REDACTED]  
[REDACTED] is monitored [REDACTED] through a [REDACTED]  
[REDACTED]  
[REDACTED] Tissue samples and swabs are sent [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

## 2. Emergency Care [Guide, p. 114]

- a. Describe the procedures to ensure that emergency veterinary care is continuously available [REDACTED]

including access to [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] have access to  
diagnostic tests, drugs and other therapeutics as needed. [REDACTED]  
[REDACTED]  
[REDACTED]

b. Describe the authority of [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]

### 3. Clinical Record Keeping [Guide, p. 115]

a. Describe the [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

b. [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]

c. Describe the role of the [REDACTED]

[REDACTED]

4. **Diagnostic Resources.** Describe available [REDACTED] program including:

a. In-house diagnostic laboratory capabilities.

[REDACTED]

b. Commercially provided diagnostic laboratory services.

[REDACTED]

c. Necropsy facilities and histopathology capabilities.

[REDACTED]

d. Radiology and other imaging capabilities.

[REDACTED]



[REDACTED]  
 [REDACTED]  
 [REDACTED]

2. [REDACTED] [Guide, pp. 116-117, 144-145]

\_\_\_\_\_

\_\_\_\_\_

- the type of [REDACTED]
  - nature of procedure(s) [REDACTED]  
[REDACTED]
  - the amount of use [REDACTED]
  - [REDACTED]  
[REDACTED]
  - [REDACTED]  
[REDACTED]
  - [REDACTED]  
[REDACTED]
- ventilation, lighting, and fixed equipment [REDACTED]  
[REDACTED]

*Note:* If preferred, the information requested in this section may be provided in Table.

[illegible]

3. [REDACTED] [Guide, pp. 117-118]

- a. Describe the criteria used to differentiate [REDACTED] including classification for [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



d. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**5. Intraoperative Monitoring** [*Guide*, p. 119]

Describe monitoring and recording requirements for [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

**6. [REDACTED]** [*Guide*, pp. 119-120]

Describe the [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] pp. 120-121]

1. Describe how and by whom [REDACTED]

Protocols [REDACTED]  
convened meetings. Discussions include statements and references [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

2. Describe training programs for personnel [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

F. [REDACTED] [Guide, pp. 121-123]

1. [REDACTED]

Note: If preferred, this information may be provided in Table or additional Appendix.

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

2. Describe how [REDACTED]  
concerning [REDACTED]  
methods.

[REDACTED]  
[REDACTED]  
[REDACTED]

3. Describe the monitoring of the effectiveness [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

4. Describe how [REDACTED]  
[REDACTED]

Not Applicable.

5. Describe policies and practices for maintaining and ensuring [REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

G. [REDACTED]

1. Describe approved methods [REDACTED] (for additional guidance, see pertinent [AAALAC Reference Resources](#)). Include:
- [REDACTED]  
[REDACTED]
  - [REDACTED]

Note: If preferred, this information may be provided in Table or additional Appendix.

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

2. Describe policies and practices for maintaining and ensuring [REDACTED]

[REDACTED]

3. Describe the methods used [REDACTED]

[REDACTED]

#### IV. Physical Plant [Guide, pp. 133-155]

A. [REDACTED]

Provide a brief introduction to the [REDACTED] Note that this overview should augment the information provided in [REDACTED] which includes [REDACTED] Please use consistent terminology for the buildings/areas/sites described in the Location section of the Appendix. Please do not repeat information, [REDACTED]

[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
however, it has not been used due to inadequate temperature control. It may be used if/when renovated [REDACTED] provides a secured, [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

B.

In this section, describe each centralized or centrally-managed [REDACTED] [REDACTED] the [REDACTED] Ensure that the [REDACTED] are legible and [REDACTED] Note that a separate section for describing [REDACTED] is included below.

[REDACTED] or [REDACTED] addressing each of the features outlined below (1-8). A [REDACTED] however, [REDACTED] as such and do not need to be repeated.

2. Physical relationship of [REDACTED]
3. Types of [REDACTED] used, such as [REDACTED]
4. Finishes used throughout [REDACTED]
5. Engineering features [REDACTED]
6. Security features [REDACTED]
7. Consideration [REDACTED]

[REDACTED]

chemicals in 30 to 55 gallon drums stand on spill prevention pallets in an isolated corner on the . Gallon or smaller sized disinfectants (tablets, wipes) are stored in .

[REDACTED]

[REDACTED]

[REDACTED] owned by the institution, a little [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Labs [REDACTED] have one to two painted metal doors. Walls are either tiled, painted concrete or gypsum board, with painted concrete floors. Sinks, fluorescent lights controlled by timers, and key locks are used in these rooms. Emergency power to these buildings is provided by a [REDACTED]

C. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1. Describe the criteria [REDACTED] which may include remote [REDACTED]

[REDACTED]

[REDACTED]

2. Describe the process used by the [REDACTED] provide oversight of, and ensure compliance with *Guide* [REDACTED] Include a description of [REDACTED] and physical security.

[REDACTED] have been included in the centralized facility descriptions. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

D. [REDACTED]

[REDACTED]

[REDACTED] and Lighting Summary (Appendix 16) for each Location described in the [REDACTED]

1.

- 
- 

provides with lighting, ventilation and emergency power through red colored electric outlets. On

2. **Other System Malfunctions.** If not previously reported, failures, and mechanisms for reporting such incidences. AAALAC International Rules of Accreditation (Section 2.f).

No system malfunctions have Such events, if occurred would be promptly reported to AAALAC and OLAW.

E.

- 1.

There are and floors are mopped after each use with These floors are mopped



In the [REDACTED]  
and cleaned after each use with [REDACTED], per protocol. [REDACTED]  
[REDACTED] and only [REDACTED] cleans the  
room, sweeps and mops the floor [REDACTED]  
[REDACTED] surface protectors are placed on the [REDACTED]  
[REDACTED]

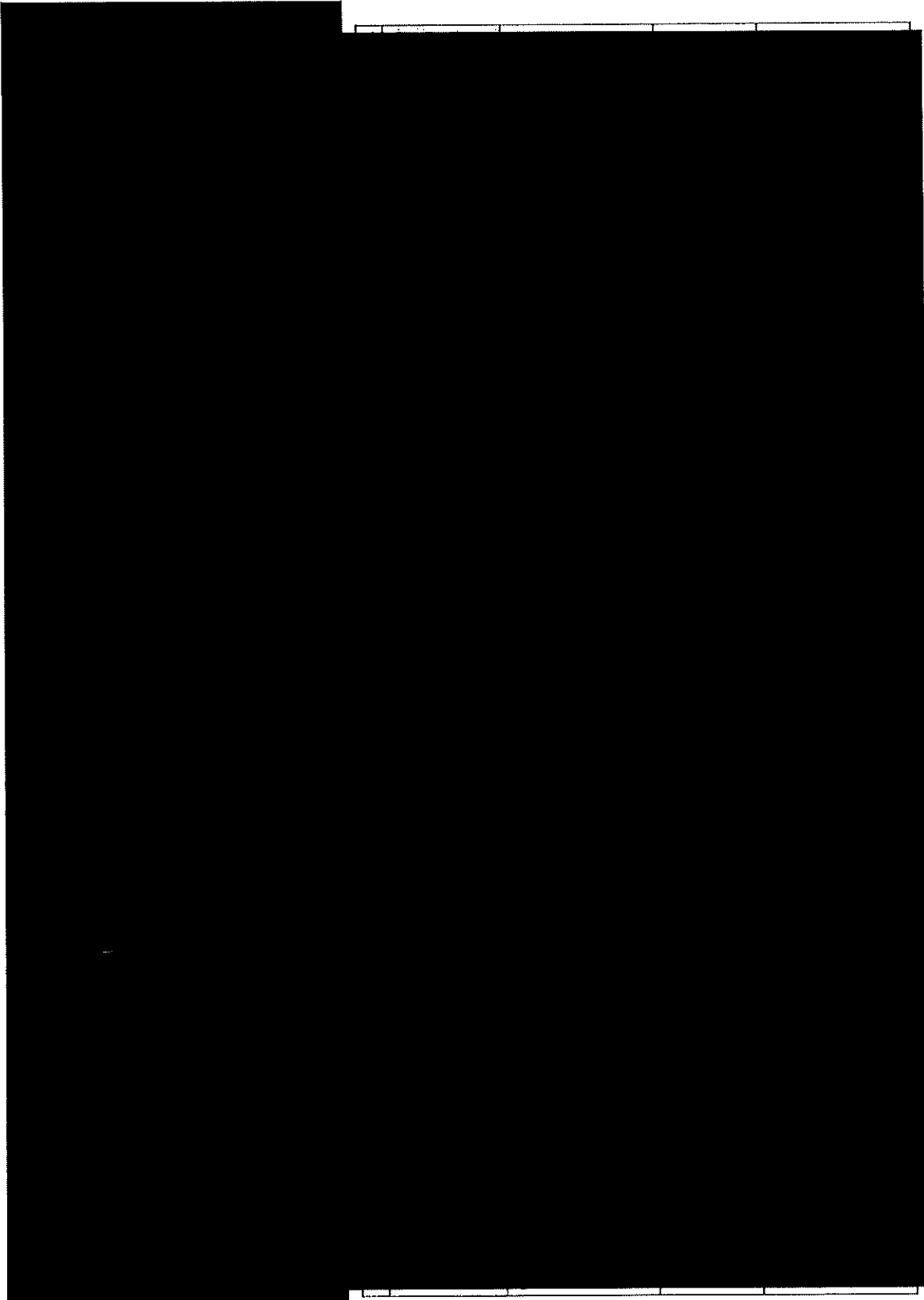
2. [REDACTED]  
Describe other facilities providing animal care and use support, such as feedmills,  
diagnostic laboratories, abattoirs, etc.

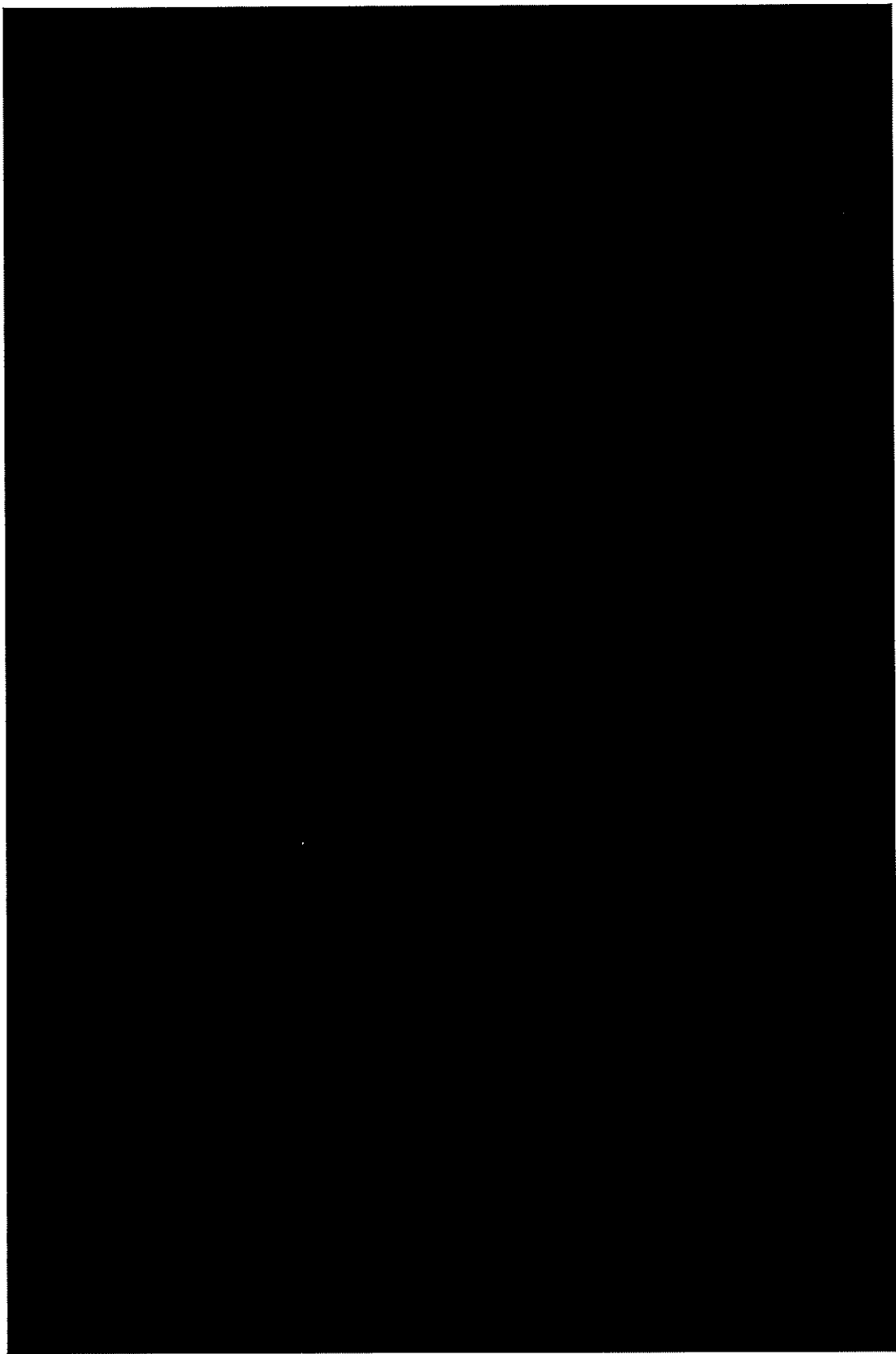
Not Applicable.

According to the privacy principles on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, we wish to advise you that the personal data in the Program Description will become part a permanent file owned by AAALAC International, and that can be shared with AAALAC International offices and representatives in order to perform an evaluation of the institution's animal care and use program and provide accreditation services. The institution has the option of exercising rights of data access, rectification, cancellation, and opposition at: [accredit@aaalac.org](mailto:accredit@aaalac.org)

## Appendix 1: Glossary of Abbreviations and Acronyms

Abbreviation/Acronym	Definition
BAS	Building Automation System
CFM	Cubic Feet per Minute
PPE	Personal Protective Equipment
SOP	Standard Operating Procedure
SSL	Secure Sockets Layer
VAV	Variable Air Volume





### Appendix 3: Line Drawings

Provide floor plans of each [REDACTED]. Plans should be provided on 8.5" x 11" or A4 paper. Ensure that the drawings are legible, [REDACTED] and the [REDACTED] is indicated [REDACTED]. [REDACTED] either directly on the drawing or in a Key/Table.

Please see attached floor plans: [REDACTED]  
[REDACTED]











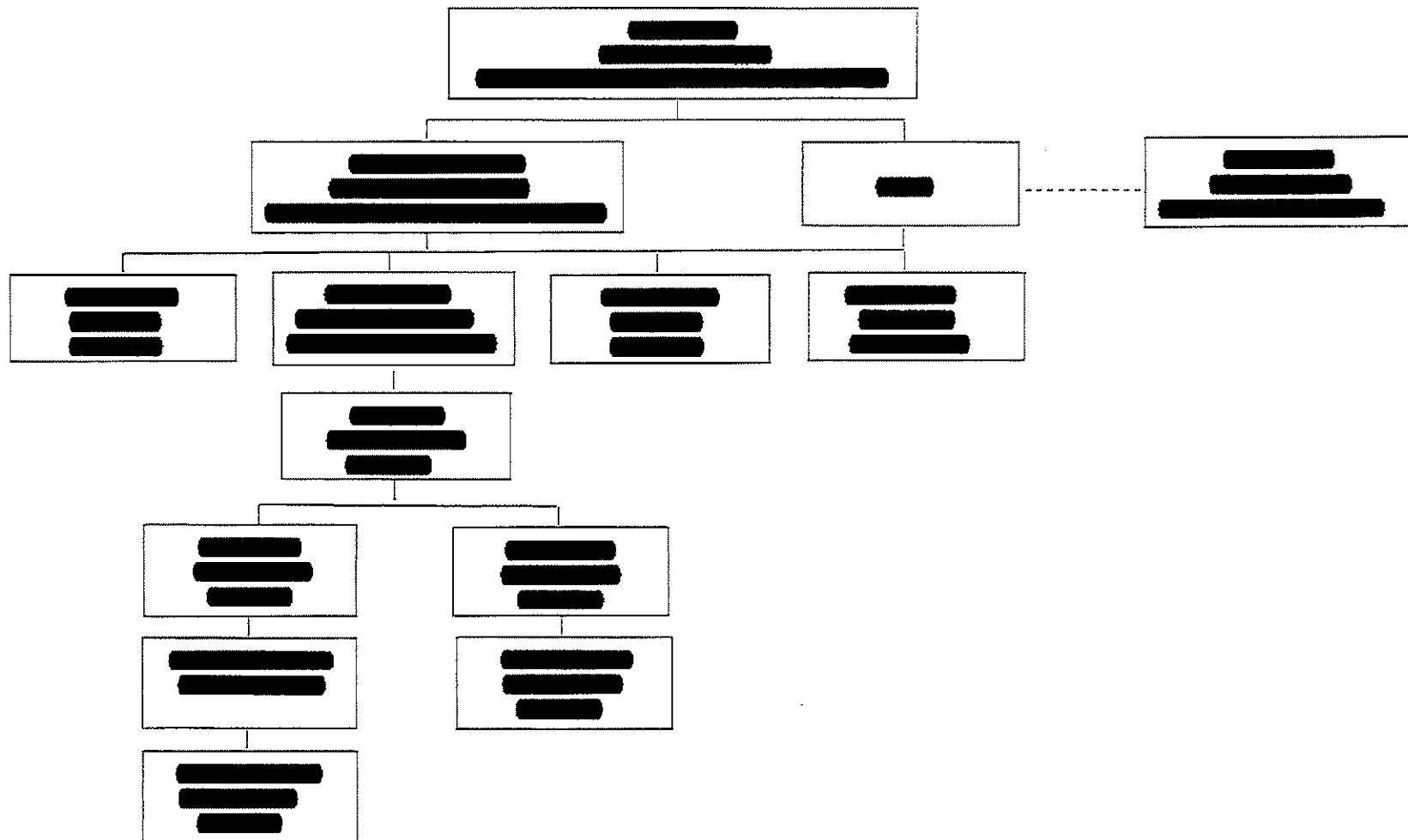


## Appendix 4: Organizational Chart(s)

Provide an accurate, current, and detailed organization chart or charts that detail the lines of authority from [REDACTED] [REDACTED]. If applicable, include personnel responsible for managing [REDACTED] and depict the reporting relationship between the [REDACTED] [REDACTED]

Please see the attached organization chart.


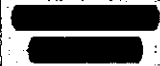



































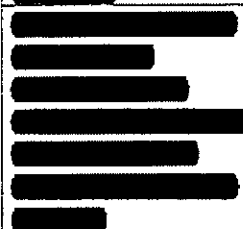




























## Organization Chart



## Appendix 5: [REDACTED]

In order to assist the site visitors in their evaluation of the [REDACTED], please provide the information requested below. Information should be provided [REDACTED] including those which may be [REDACTED]. Of particular interest is information on those [REDACTED] which are used in [REDACTED] format is acceptable as long as the information requested is provided.

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]					
						[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			[REDACTED]		[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]						
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]						
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]					[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]						







[REDACTED]											
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]					
						[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]					[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			[REDACTED]		[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]		[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]		[REDACTED]	

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

\_\_\_\_\_

[REDACTED]

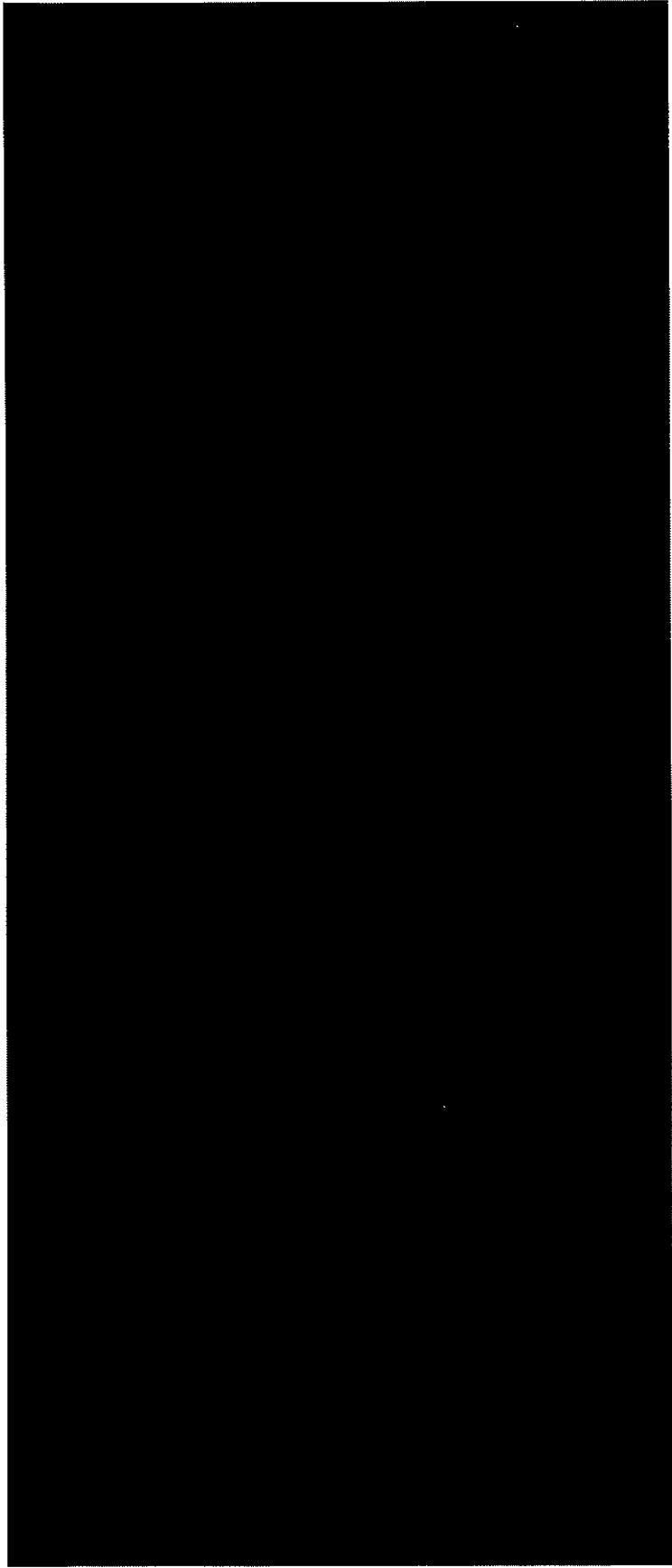
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

[REDACTED]

In the Table below, provide an approximate annual [REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



Binghamton University

HEALTH SCREENING FORM

Name:

B number:

Contact Phone Number (include area code):

E-mail:

PI or Supervisor or Instructor:

Facility where research/animal exposure occurs (please specify all locations you intend to work in):

Date of Birth:

A. ROLE (staff, faculty, student):

C. IMMUNIZATIONS : (Please specify "unknown" if you do not know.)

Are you current with your Tetanus Immunizations? (Note: Tetanus immunizations are recommended every 10 years)

What is the date of your last Tetanus immunization?

Are you current with your Hepatitis B Immunizations?

What is the date you completed your Hepatitis B Immunization series?

Any additional information about the above immunizations, titers or boosters:

D. ALLERGIES/ASTHMA/SKIN PROBLEMS

1. Are you allergic [redacted]

If yes, have you had these [redacted] within the past 12 months?

Are the level of these allergy symptoms severe or life threatening?

If yes, please list the animal(s) and their associated allergy symptoms:

What [redacted] are you currently using?

2. Are you allergic to any environmental allergens such as grass, trees, pollen, dust?

If yes, have you had these environmental allergy symptoms within the past 12 months?



Are the level of these allergy symptoms severe or life threatening?

If yes, please list environmental allergens and their associated allergy symptoms:

What environmental allergy treatment are you currently using?

3. Do you have asthma?

If yes, have you had asthma symptoms within the past 12 months?

Are the level of these asthma symptoms severe or life threatening?

If yes, please describe your asthma triggers (if known):

What asthma treatment are you currently using?

4. Do you have allergy or asthma symptoms specifically related to your work?

If yes, have you had these symptoms within the past 12 months?

Are the level of these symptoms severe or life threatening?

If yes, please describe your allergy or asthma symptoms at work.

What treatment are you currently using for your work-related allergy or asthma symptoms?

5. Have you had any skin problems caused or exacerbated by your work activities?

If yes, have you had this skin problem within the past 12 months?

Are the level of these skin problems severe or life threatening?

If yes, please describe the skin problem.

What skin problem treatment are you currently using?

E. INCREASED RISKS

1. Pregnancy Risk [REDACTED] have adverse effects on pregnancy.)

Are you pregnant or planning to become pregnant in the next year?

2. Compromised Immunity Risk [REDACTED] may create an increased risk for individuals who are immunocompromised.)

Are you immunocompromised due to certain diseases (such as cancer, lupus, rheumatoid arthritis, HIV) and/or their treatment (such as steroids, radiation therapy, chemotherapy)?

**F. ILLNESS/CONDITIONS DURING PAST 12 MONTHS**

Symptoms of [REDACTED] may not be immediately recognized. Please specify if you've experienced any of the following:

Chronic Cough	Wheezing	Night-time Cough
Itchy or Irritated Eyes	Hives	Skin Rash
Heart Conditions	Lyme Disease	Eczema
Chronic Muscle or Joint Problems		

Please describe illness/condition and treatment:

*To the best of my knowledge, the information included herein is true.*

Signature of Individual Completing this Form:

Date:

Reviewed by:

Date:

Appendix 6 - BU visitors health form

**BINGHAMTON**  
UNIVERSITY  
STATE UNIVERSITY OF NEW YORK

**Occupational Health & Safety**

For individuals who are \_\_\_\_\_ courses at Binghamton University \_\_\_\_\_

Date of arrival: \_\_\_\_\_ Anticipated duration of visit: \_\_\_\_\_

**Section 1: Personal Information** – Please Print

Birth Date \_\_\_\_\_

**Contact Information**

Last Name \_\_\_\_\_ First \_\_\_\_\_ Middle \_\_\_\_\_ Sex: ☐ M ☐ F  
Home Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Local Phone/Cell# \_\_\_\_\_ Email \_\_\_\_\_

**In Case of an Emergency**

Person to be notified \_\_\_\_\_ Relationship \_\_\_\_\_ Phone \_\_\_\_\_  
Name of Primary Care Physician \_\_\_\_\_ Phone \_\_\_\_\_

**Binghamton University Department planning to visit**

Department \_\_\_\_\_ Supervisor's Name \_\_\_\_\_ Supervisor's Phone \_\_\_\_\_

**Section 2: Risk Assessment**

**Visitor Status**

☐ Undergraduate Student ☐ Animal Technician ☐ Visiting Veterinary Staff  
☐ Graduate Student ☐ Visiting Faculty ☐ Other (list job description) \_\_\_\_\_

Please check the box which approximates the time you plan to spend in an animal lab or doing field work:

☐ Daily ☐ Weekly ☐ Monthly ☐ Rarely (Less than once a month)

**Section 3: Medical History Screening** (Check if you have a history of Asthma or Allergies)

- ☐ Asthma If Yes, are your symptoms under control with your present treatment? ☐ Yes ☐ No  
Are your Asthma symptoms triggered by any of the following? (Check all that apply)  
☐ Allergies ☐ Fumes ☐ Cold ☐ Heat ☐ Other (please describe) \_\_\_\_\_
- ☐ Allergies If there is a history of Allergies please check what you are allergic to: ☐ Dust ☐ Mold  
☐ Latex ☐ Food (list) \_\_\_\_\_ ☐ Pollens (list) \_\_\_\_\_  
☐ Medications (list) \_\_\_\_\_
- Have you been told by a health practitioner that your Immune system is suppressed or compromised? ☐ Yes ☐ No
- Are you presently being treated for any acute or chronic illness? ☐ Yes ☐ No
- (For females only) Are you pregnant? ☐ Yes ☐ No
- Please list the most recent dates of these vaccinations: ☐ Tetanus \_\_\_\_\_ ☐ Hepatitis B \_\_\_\_\_
- Do you presently have any work restrictions? ☐ Yes ☐ No If Yes, please explain: \_\_\_\_\_

**\*\*Confidential Medical Information\*\*** - This information is strictly for the use of the Occupational Health and Safety  
\_\_\_\_\_ and may not be released to anyone without your written consent  
\_\_\_\_\_ in an envelope marked confidential\*\*

I attest that the information above is correct to the best of my knowledge.

Signature \_\_\_\_\_

Date \_\_\_\_\_

Date Reviewed \_\_\_\_\_

Signature of Parent or Guardian (if under 18) \_\_\_\_\_

Date \_\_\_\_\_

## Appendix 6 - BU visitor health waiver

## Visitors

A visitor is anyone who [REDACTED] requirements to [REDACTED] should enroll in the OH&S program.

Binghamton University is committed to excellence in care and [REDACTED] and in protecting the health and safety of personnel in research areas. By submitting this form to the [REDACTED] the individual named as visitor, or guardian of a minor visitor, has understood and accepted responsibility for the risks described and agrees to abide by the policies stated. Optionally, visitors may fill out a "Visitor Health Questionnaire" to be reviewed by a healthcare professional for a potential health consultation [REDACTED] This process may take several days to a week to complete. Health questionnaires are [REDACTED]

hazards. Unless specifically stated on a door, infectious agents are not used in

However, proteins that can cause allergic reactions in people from [REDACTED] are present in the environment. Reactions include, but are not limited to: sneezing, coughing, irritated eyes, and skin rashes. People with allergies and asthma are more likely to develop these symptoms or more serious reactions such as wheezing, shortness of breath, or a potentially life-threatening reaction [REDACTED]

Visitors will be escorted by

\_\_\_\_\_ sensitive to noise and odors is \_\_\_\_\_ please be quiet and mindful that strong scents such as perfumes and smoke influence \_\_\_\_\_

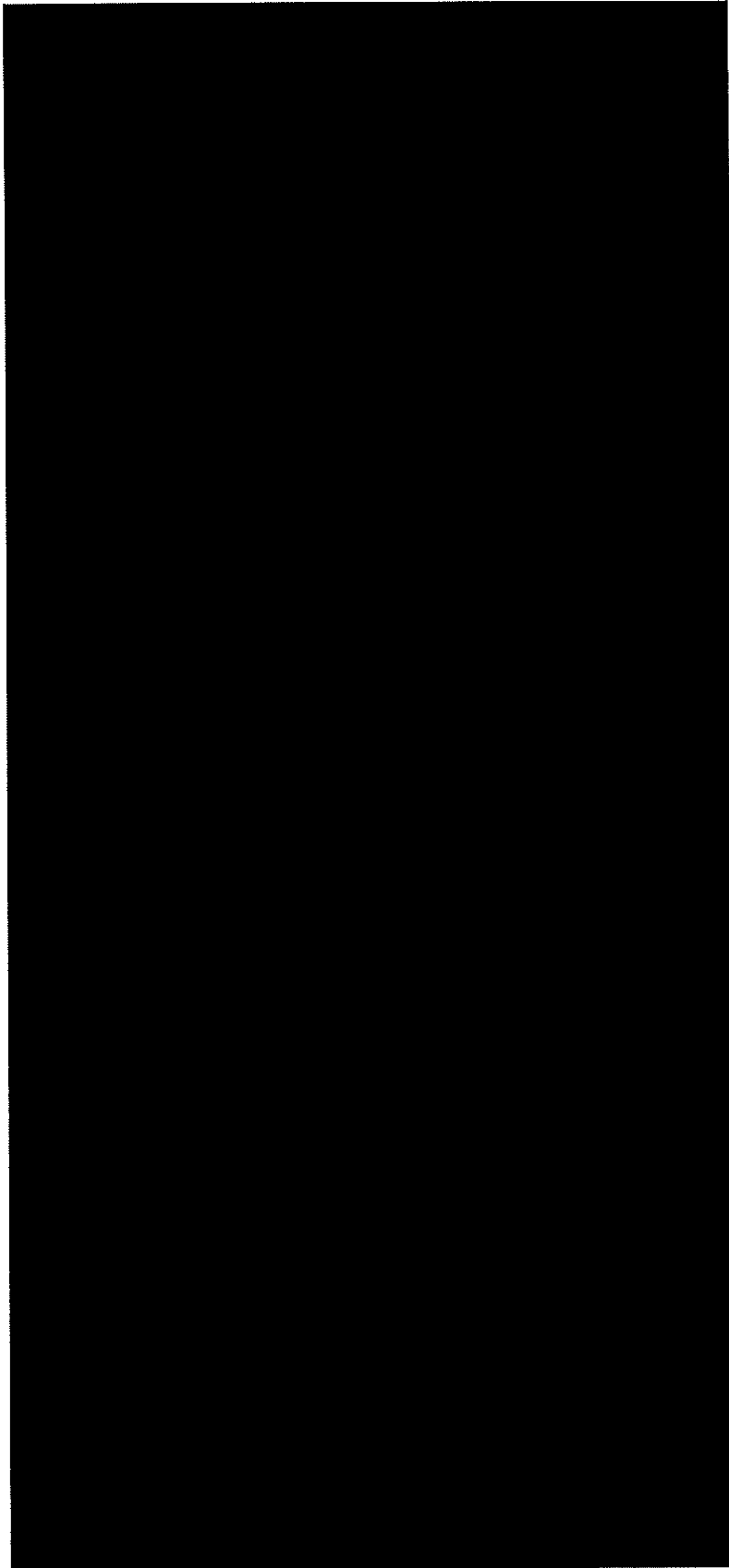
Visitor Name \_\_\_\_\_

Visitor Signature (or signature of guardian if visitor is a minor)

Date \_\_\_\_\_ Date(s) of Visit \_\_\_\_\_

Purpose of Visit \_\_\_\_\_

Escort Name \_\_\_\_\_



Appendix 8: [REDACTED]

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Uploaded to Animal Research Laboratory Overview (ARLO) on 01/30/2021

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Appendix 9 -  
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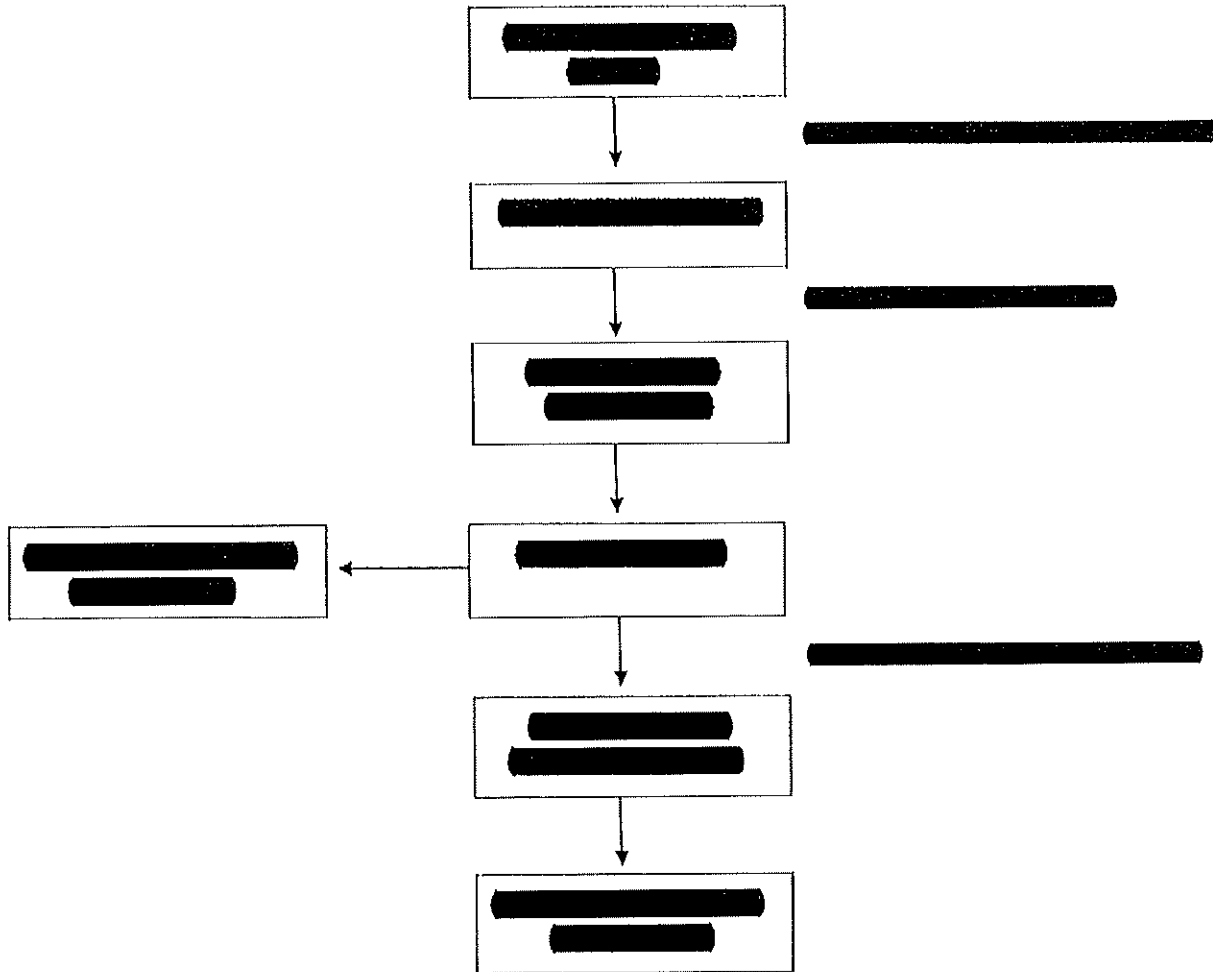
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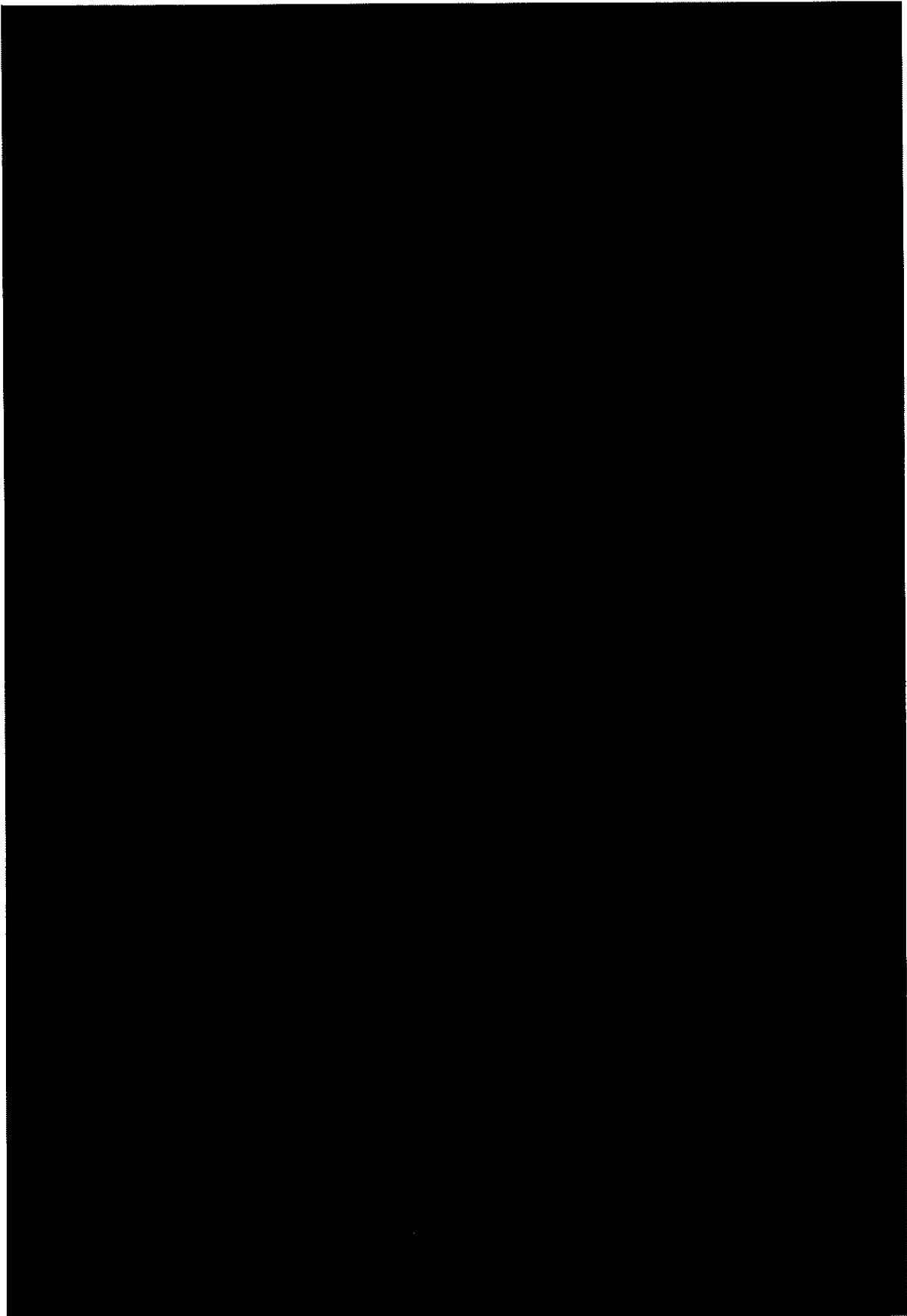
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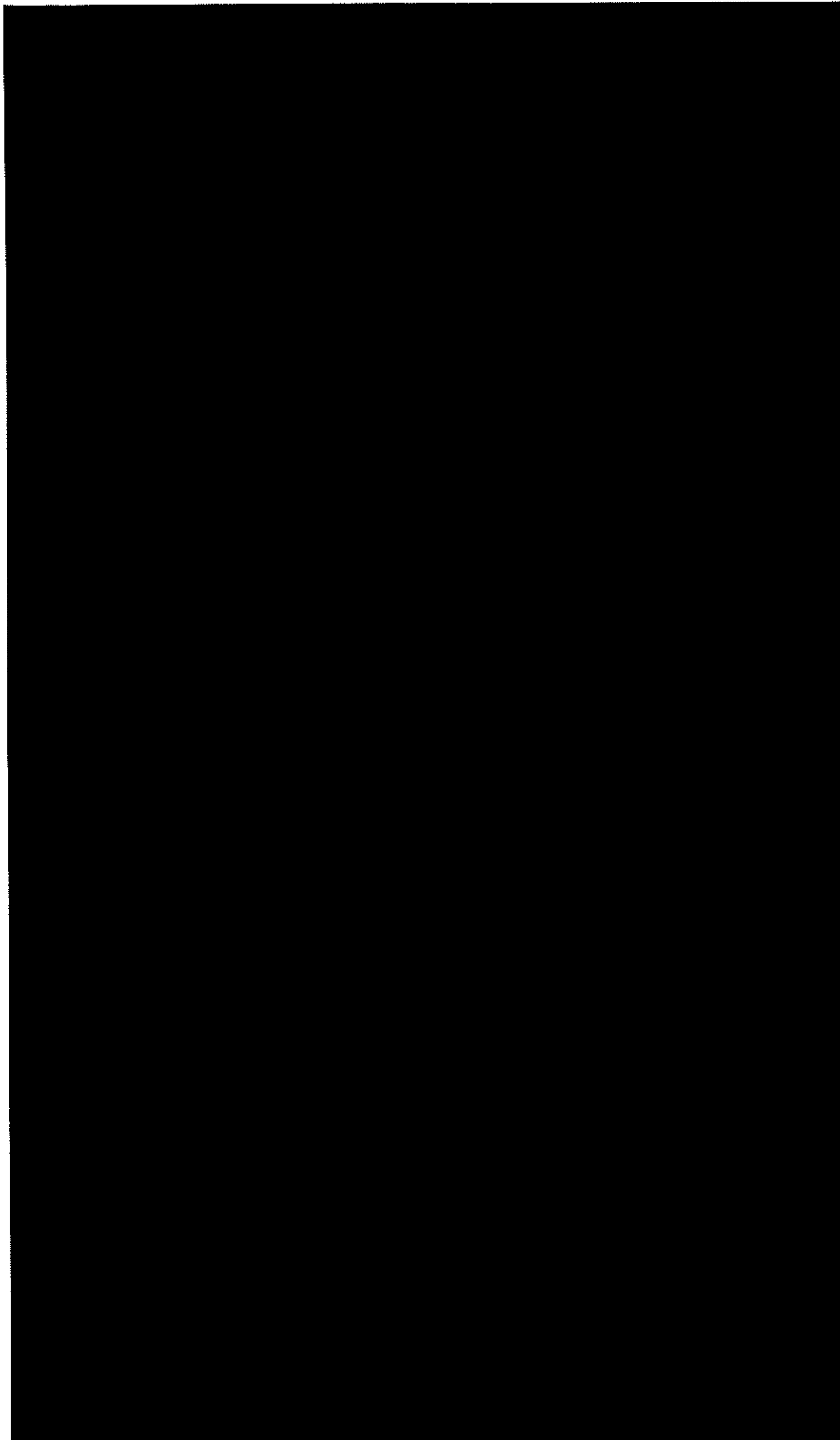


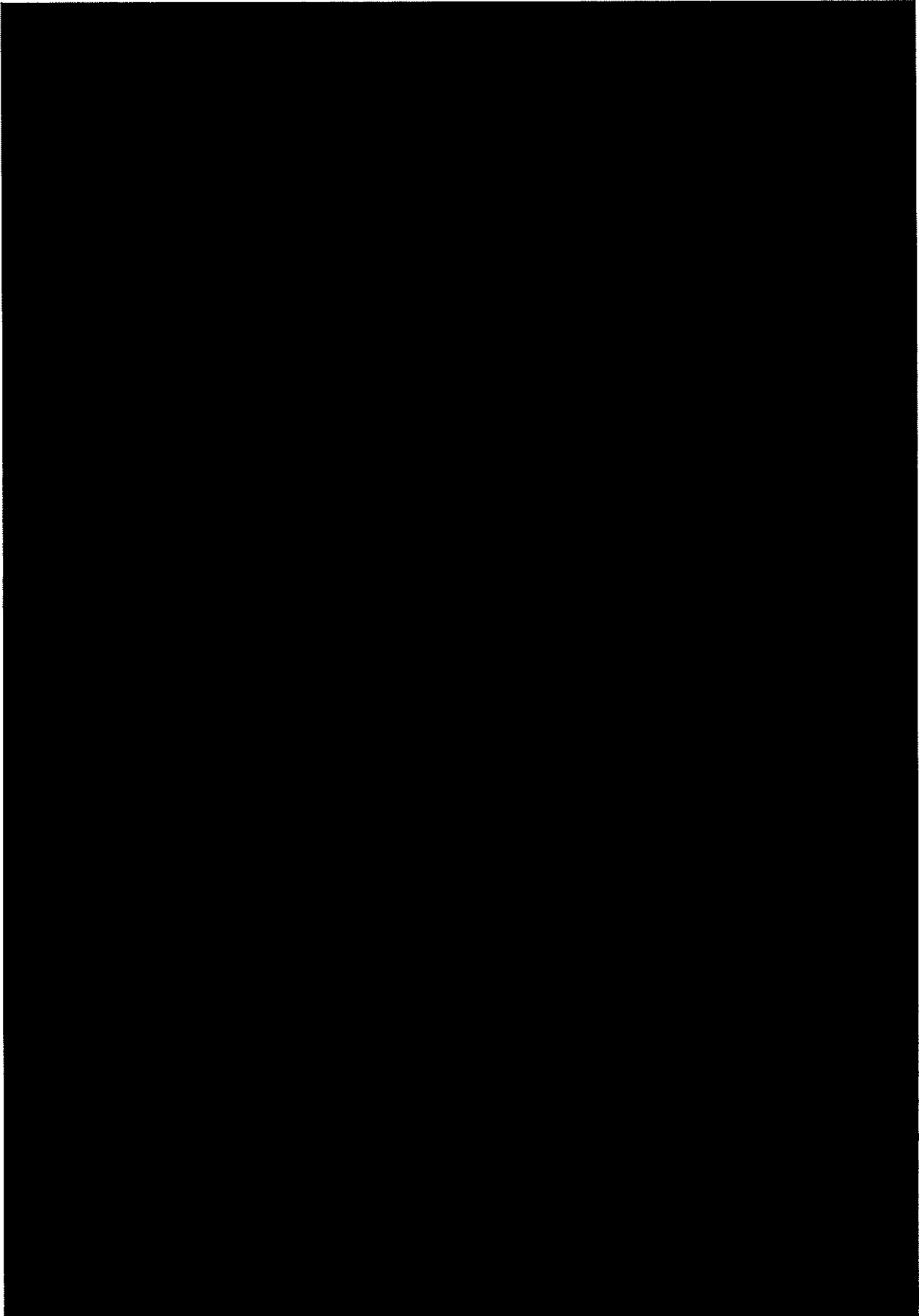


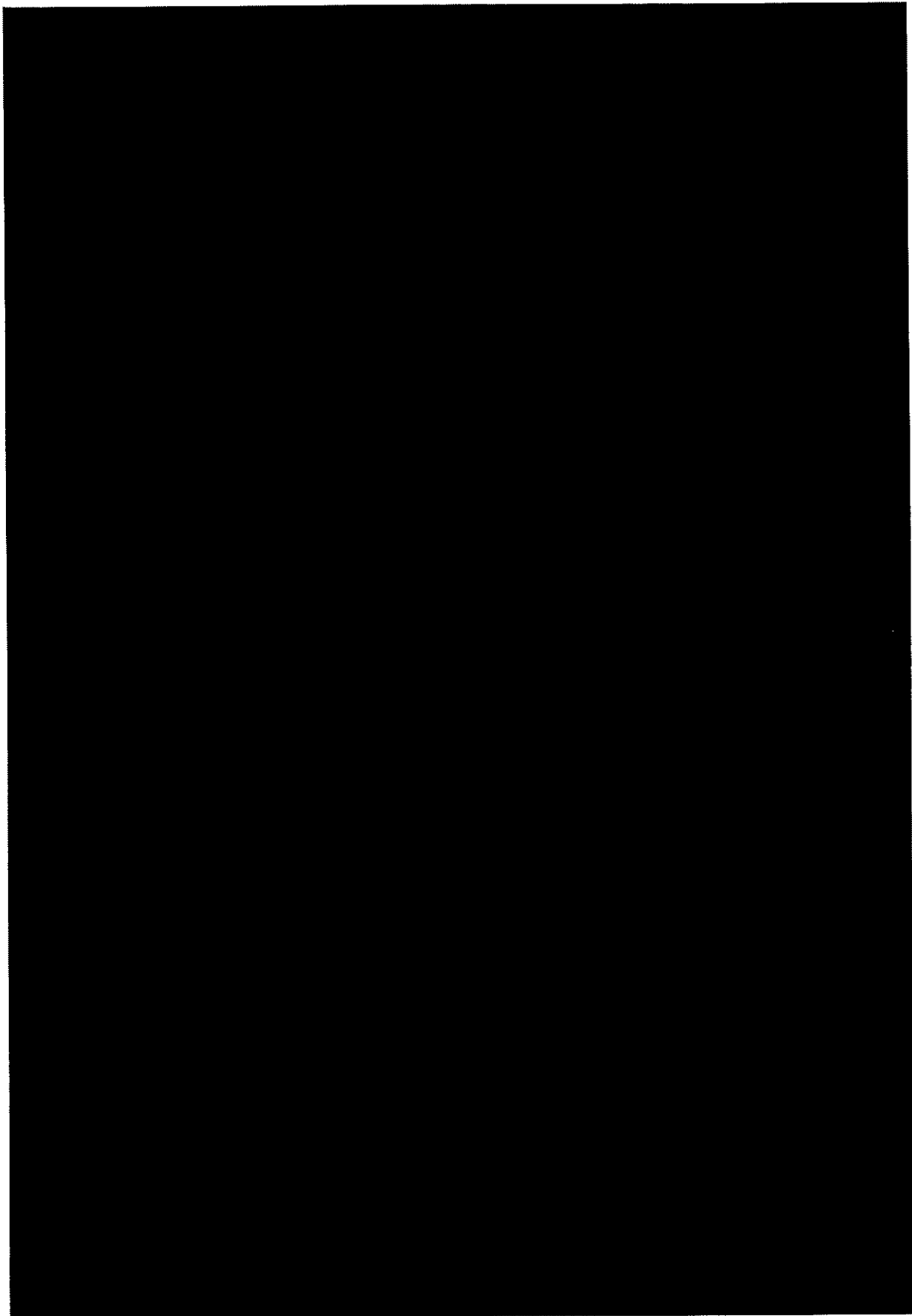
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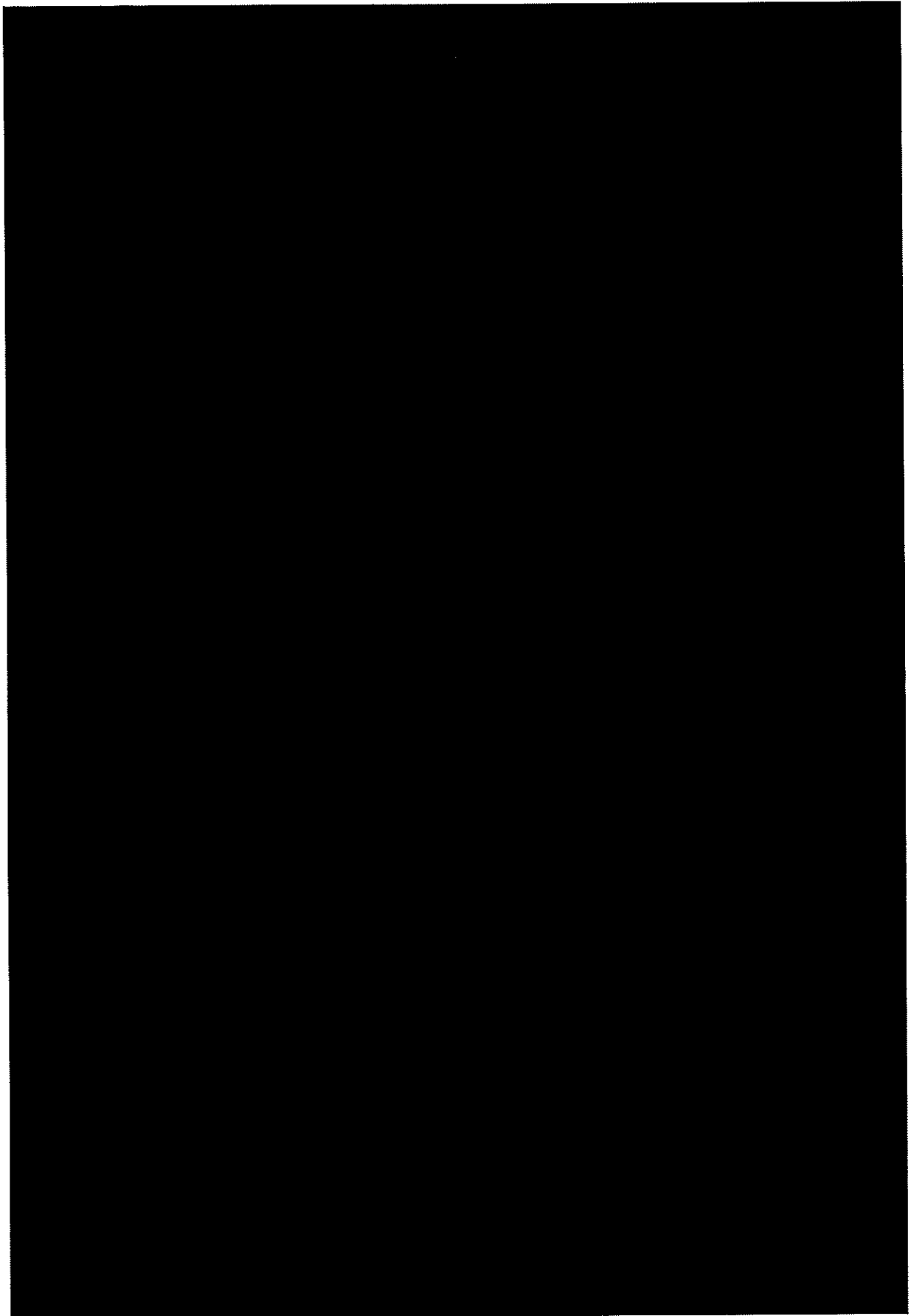
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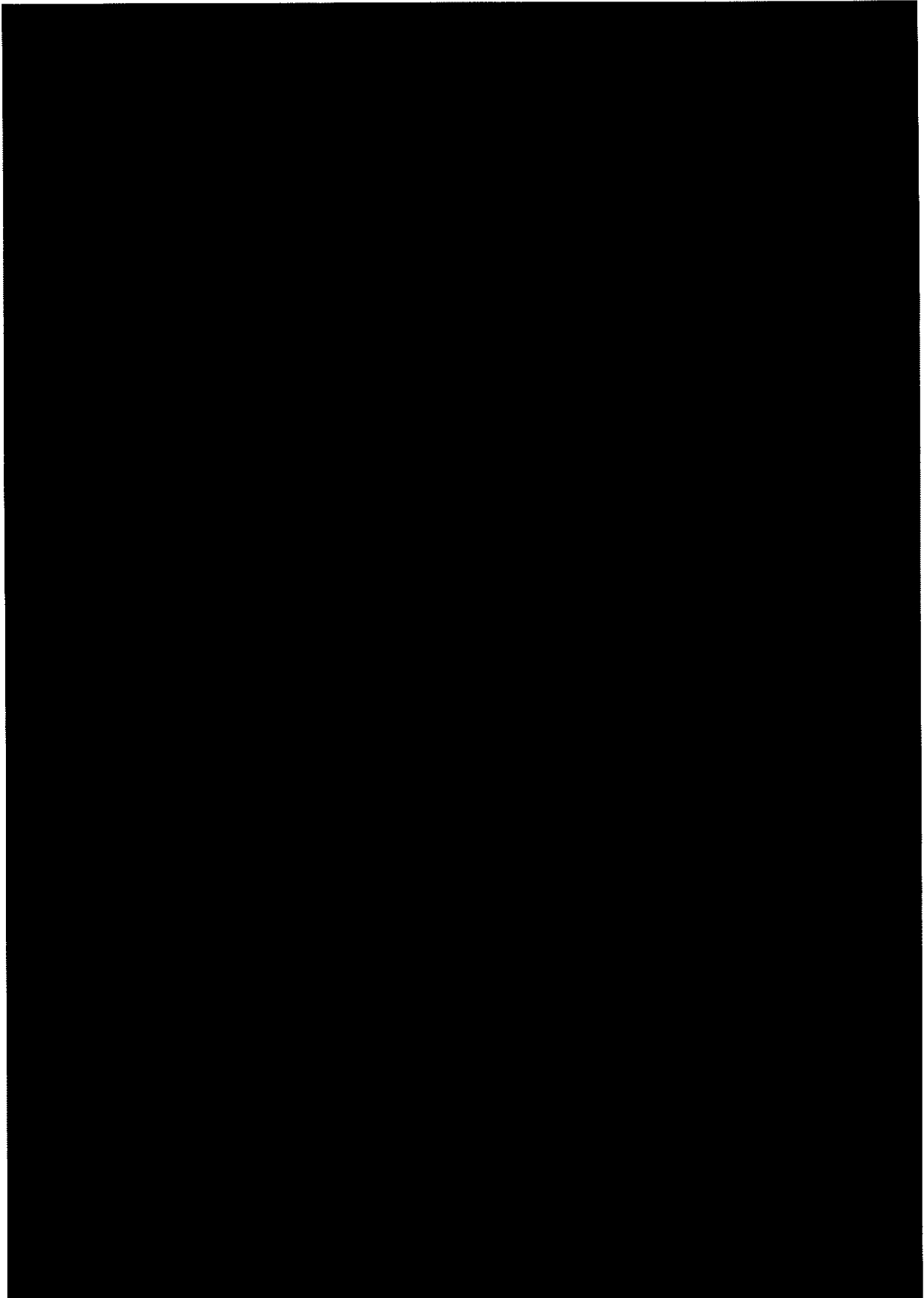




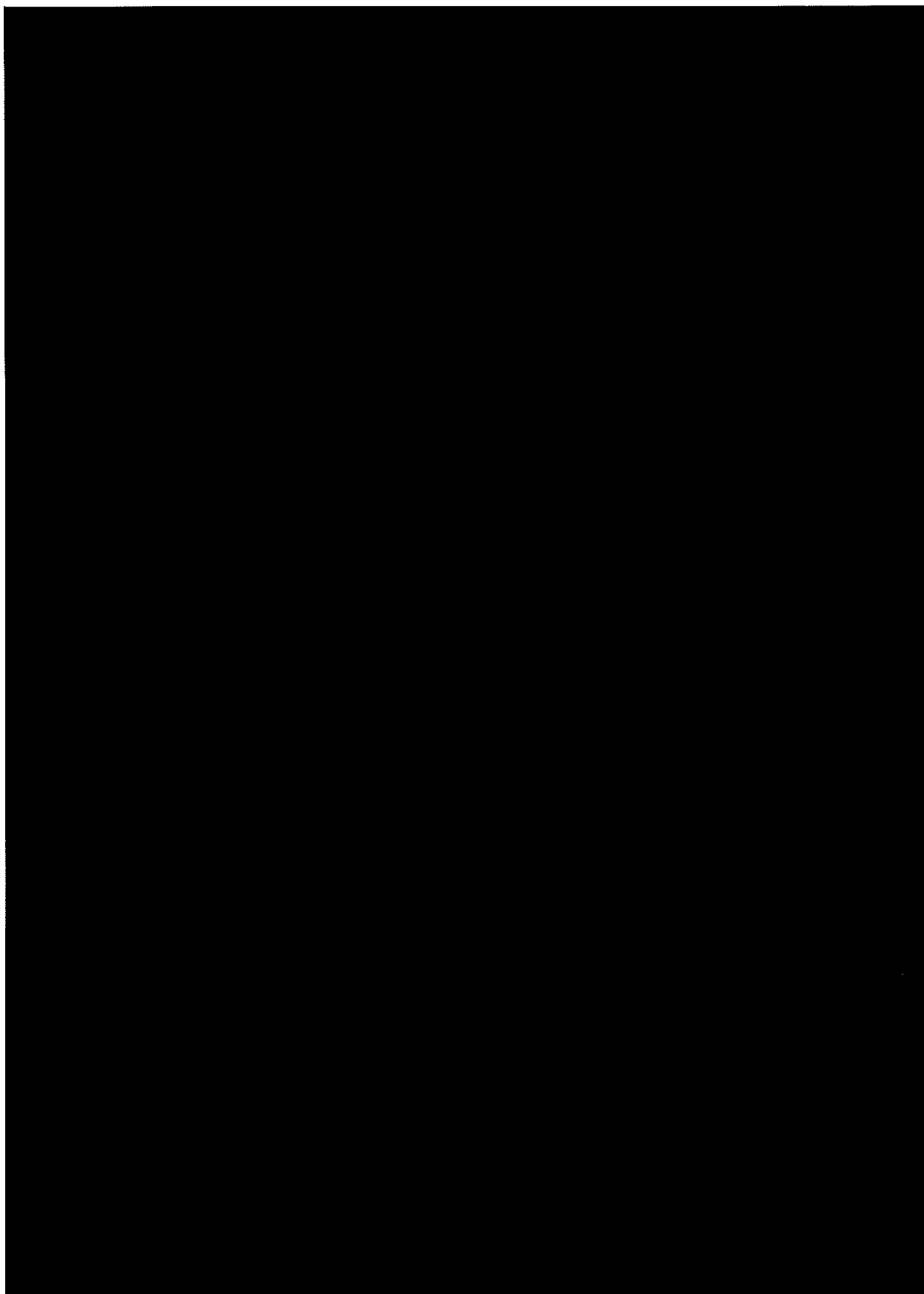


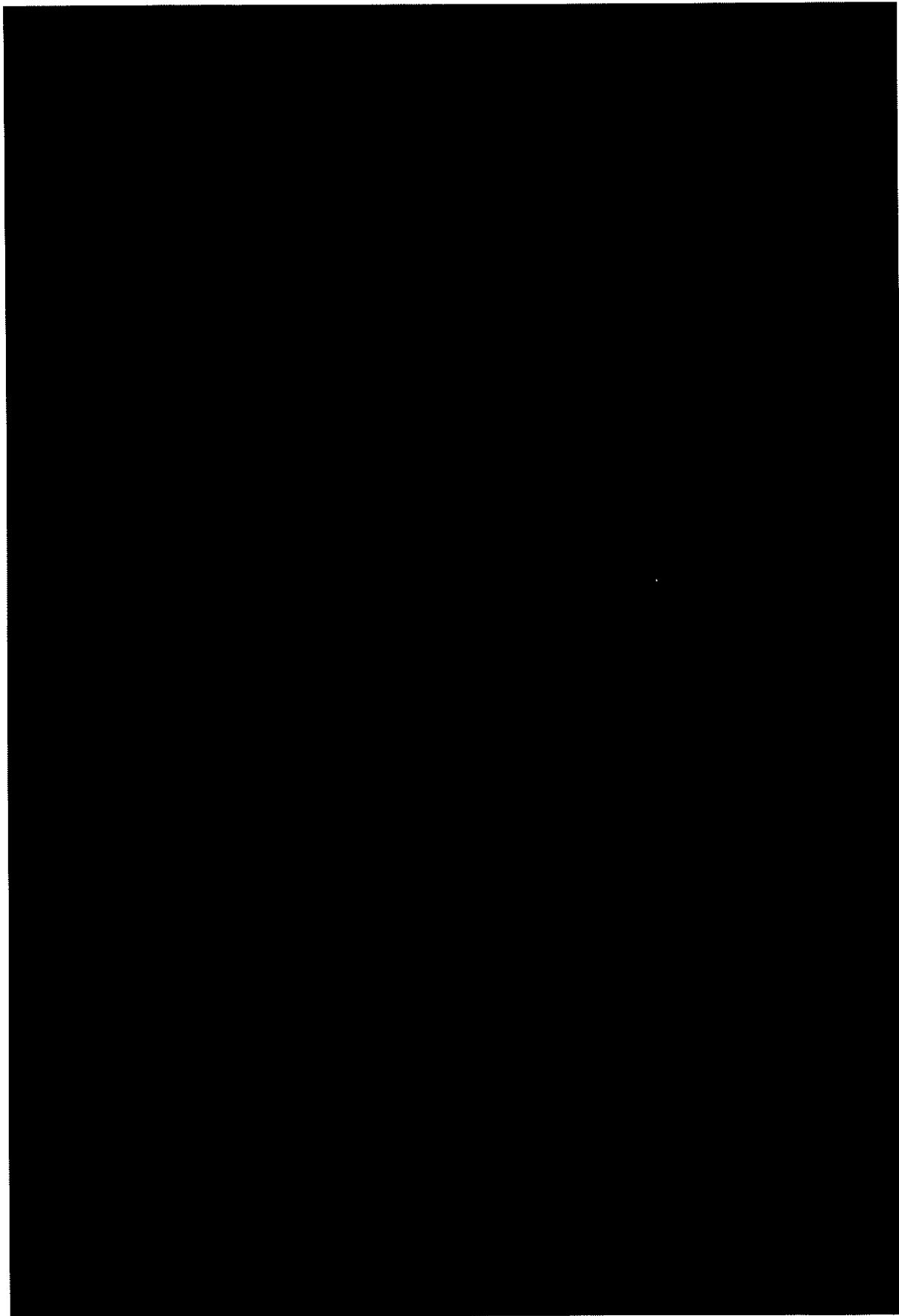


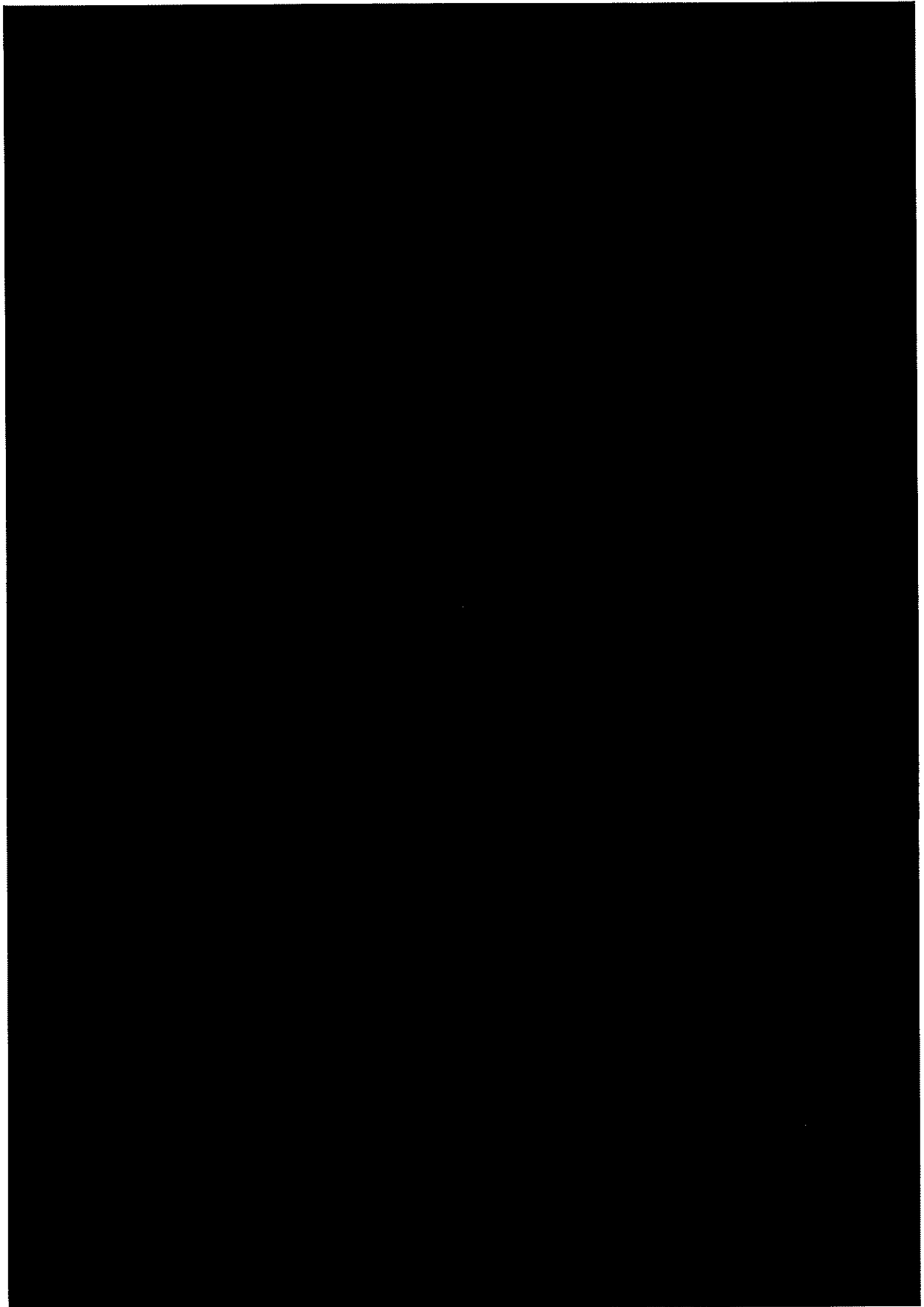


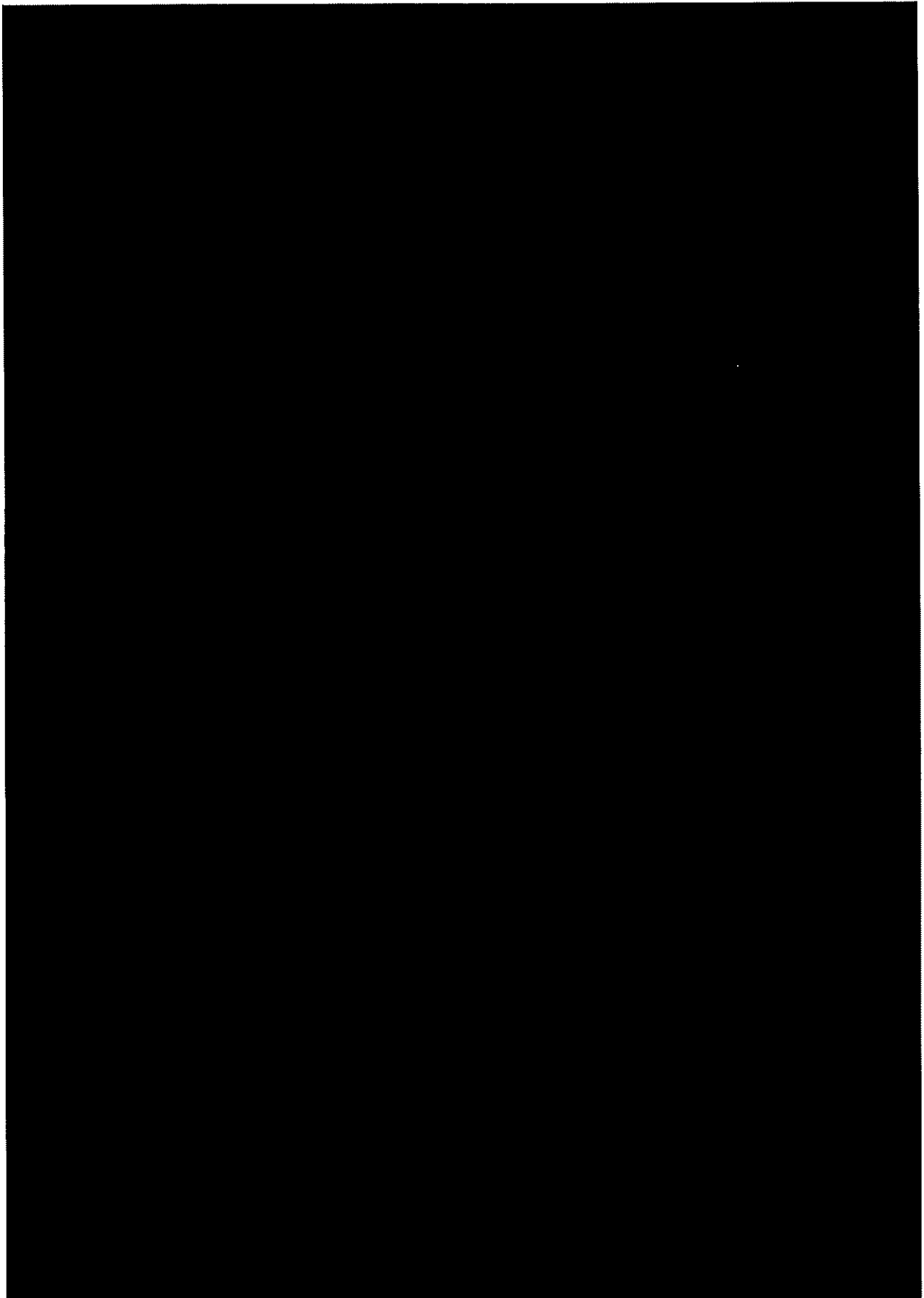


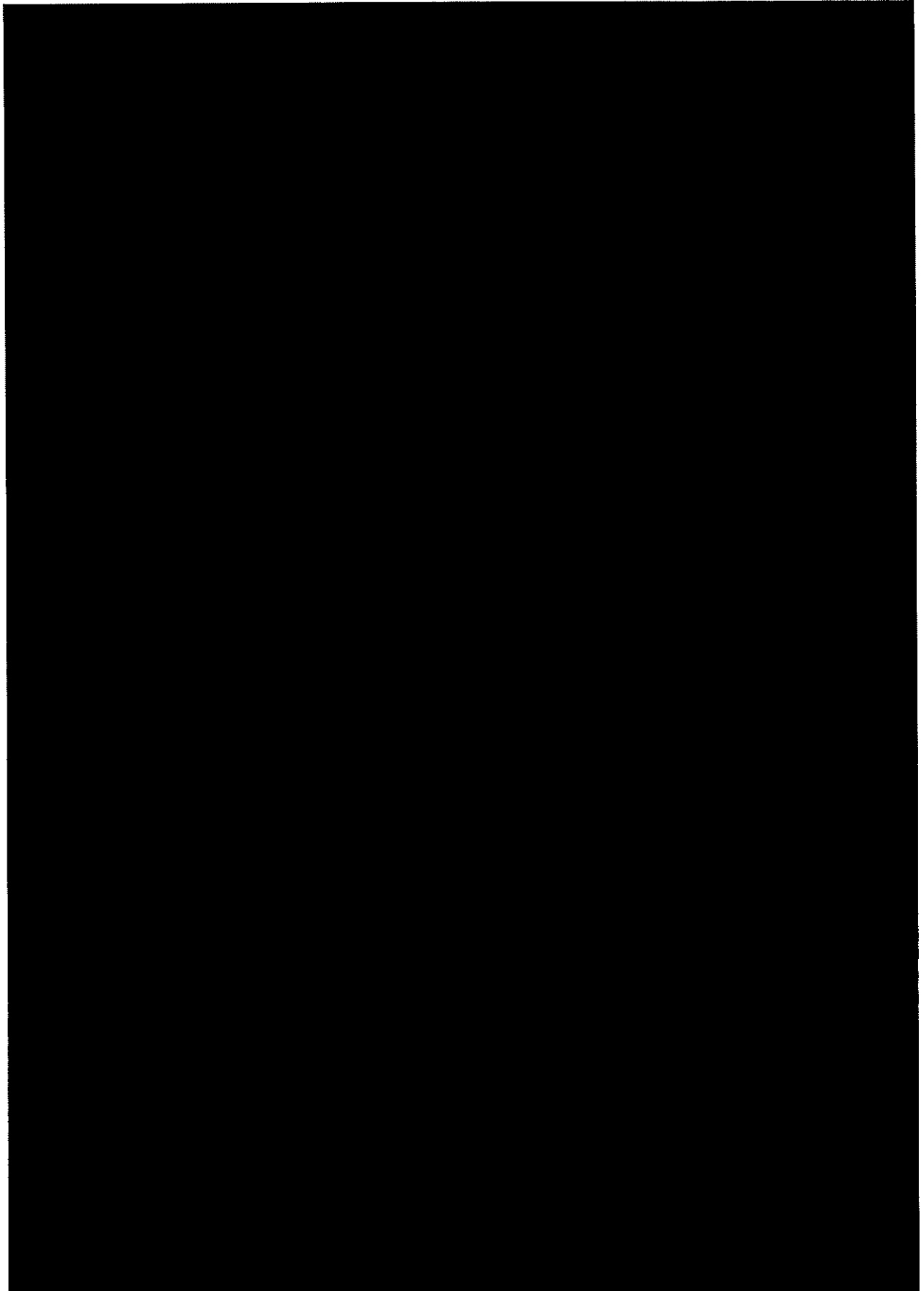


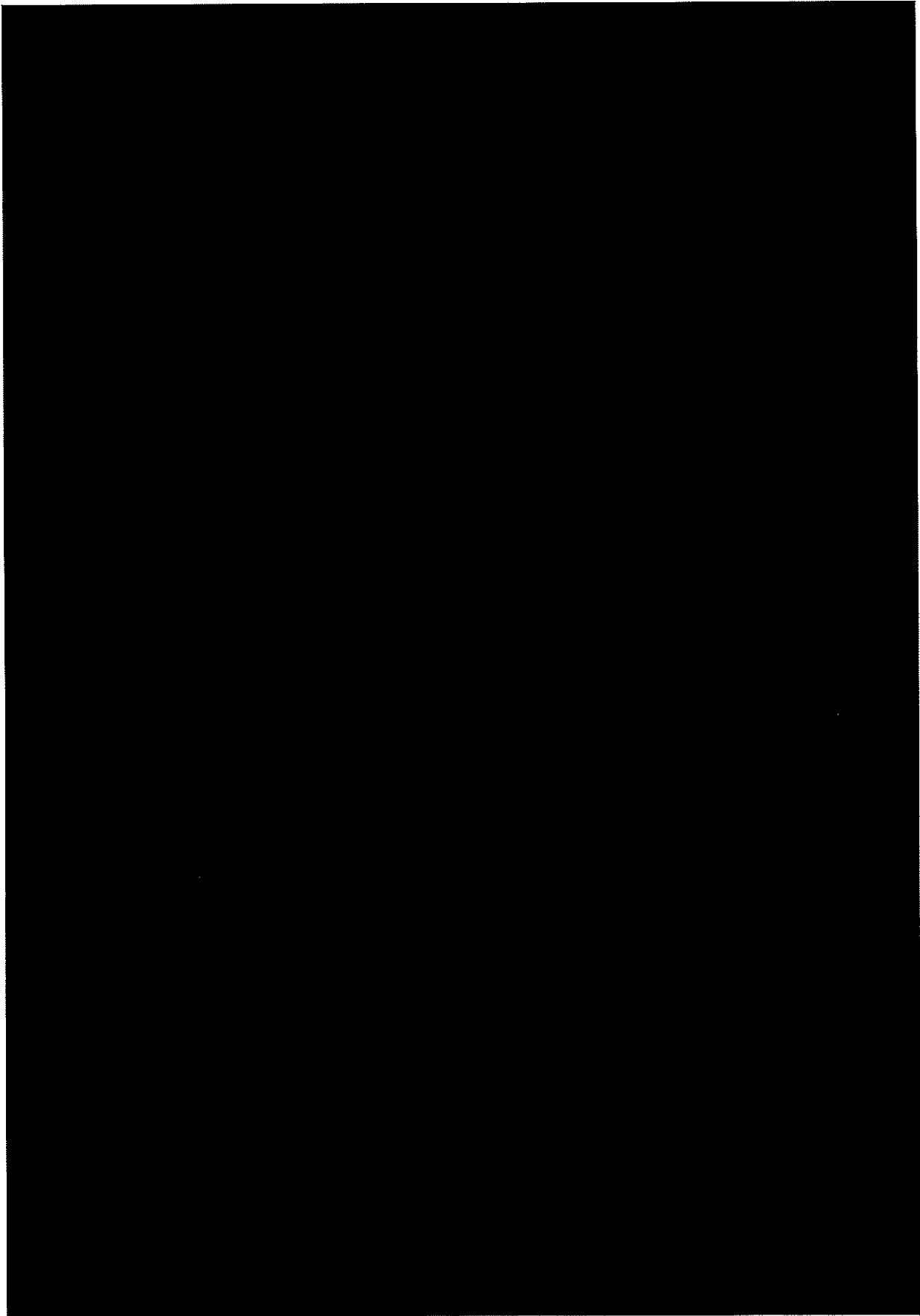


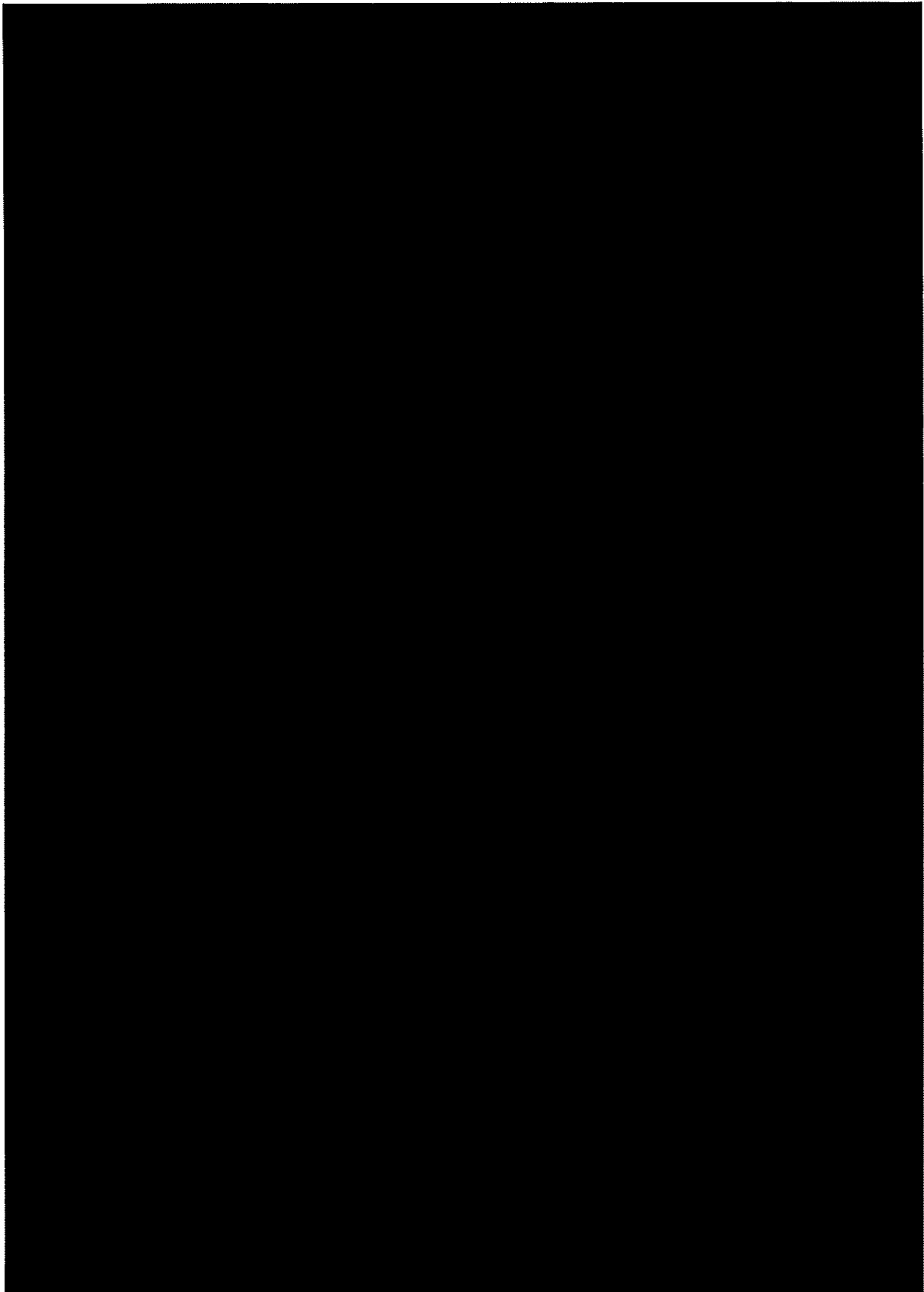


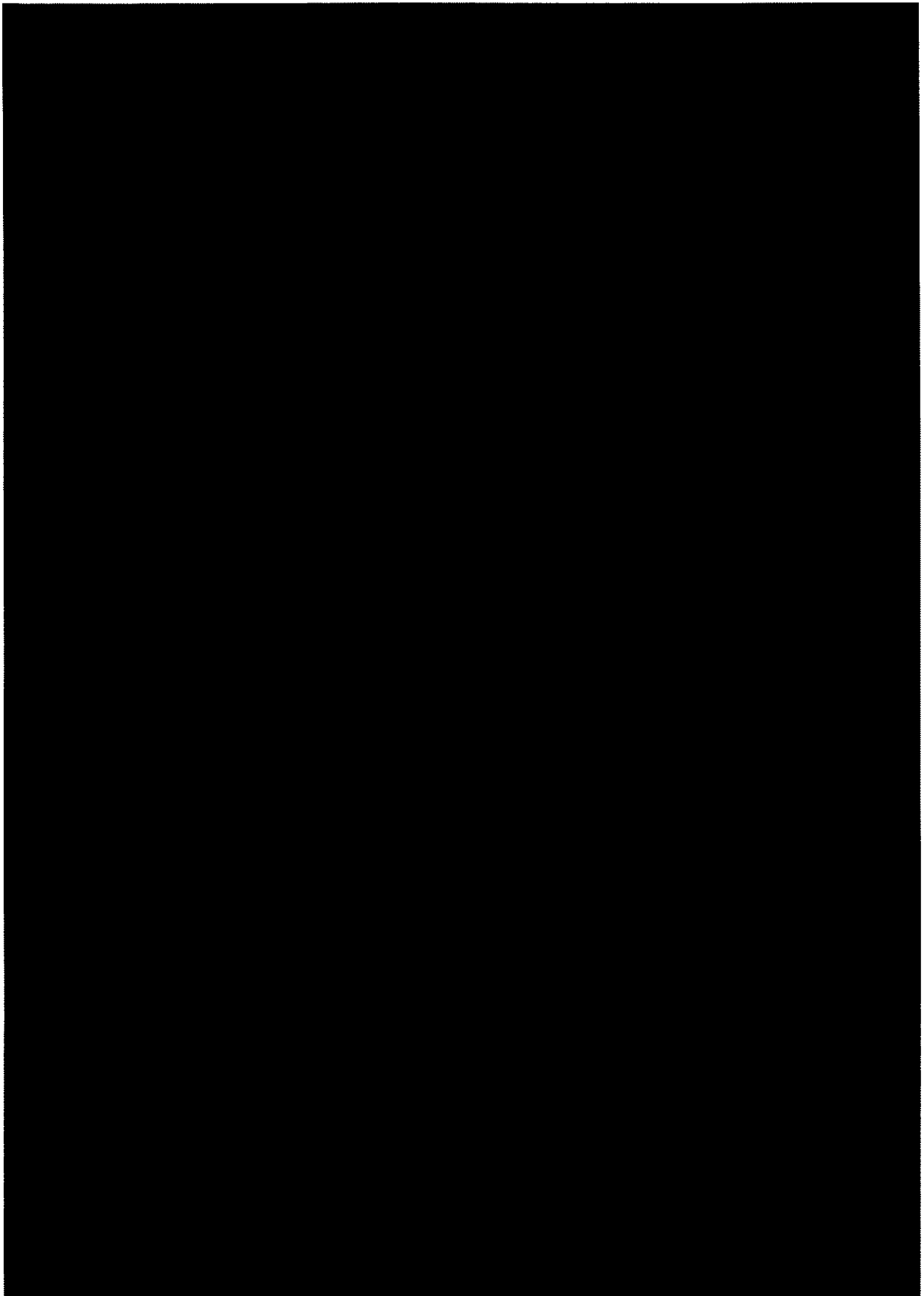




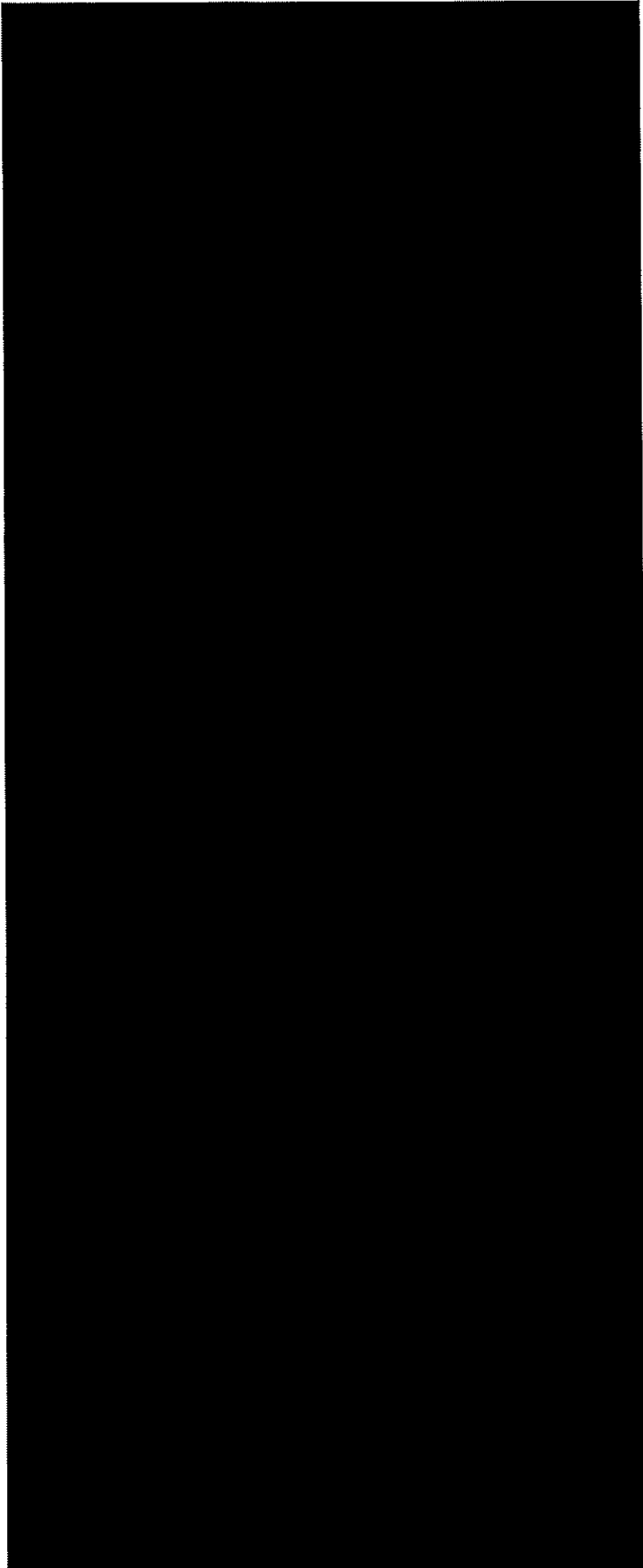


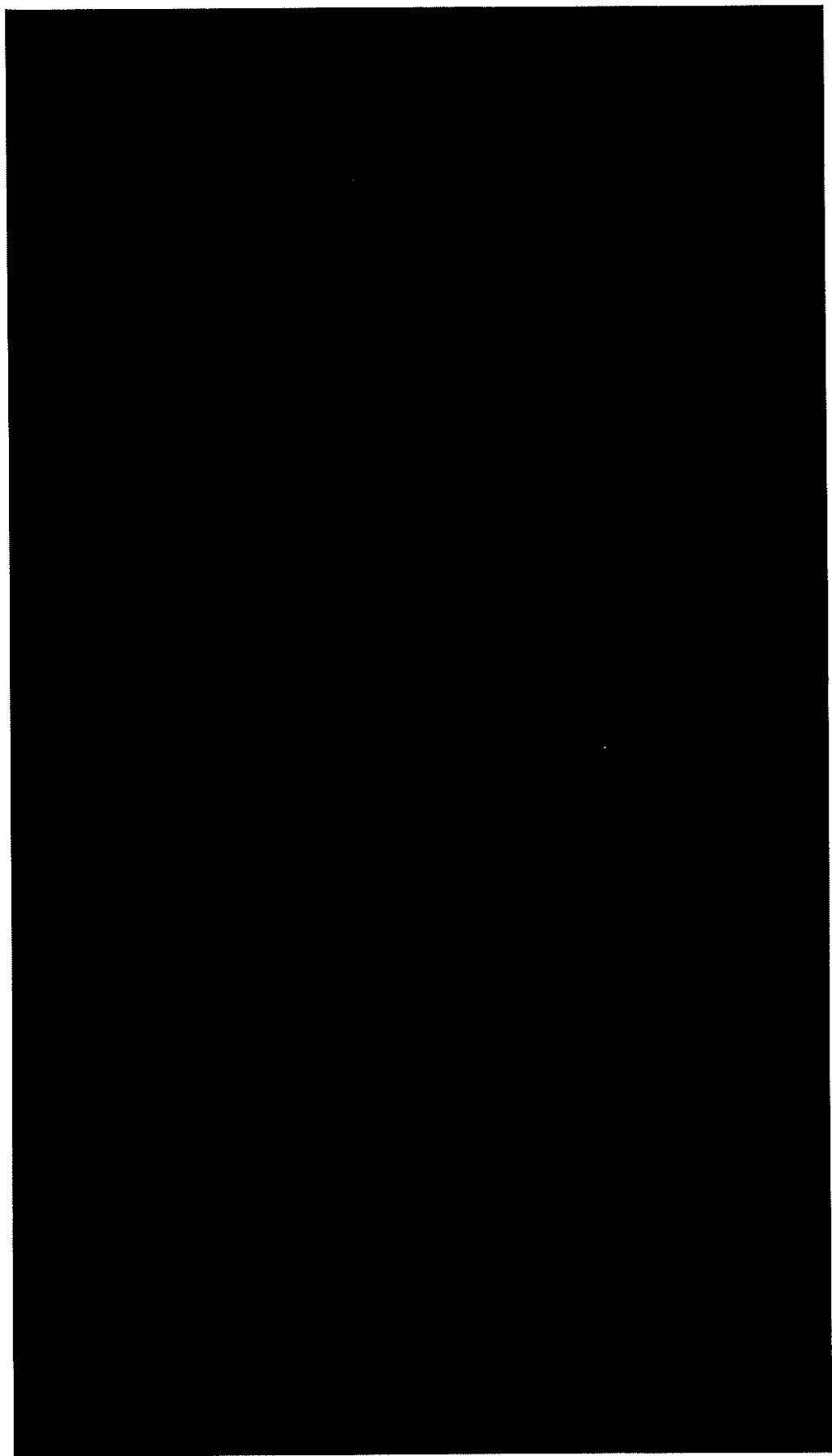


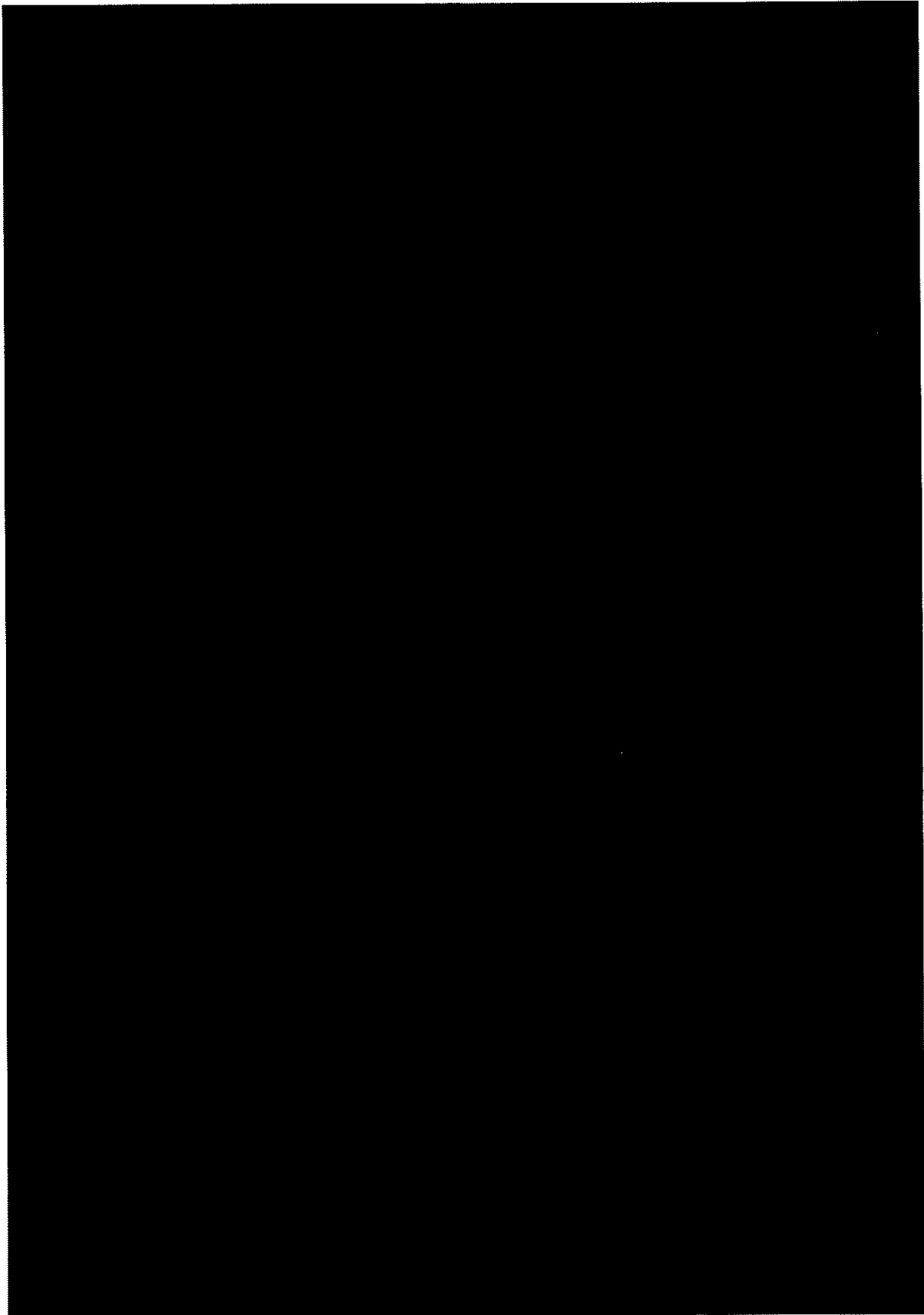


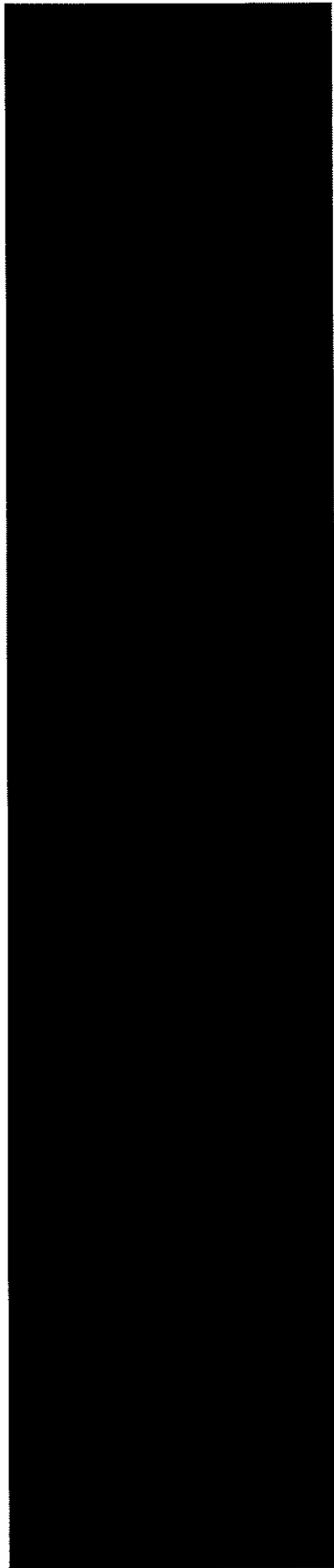


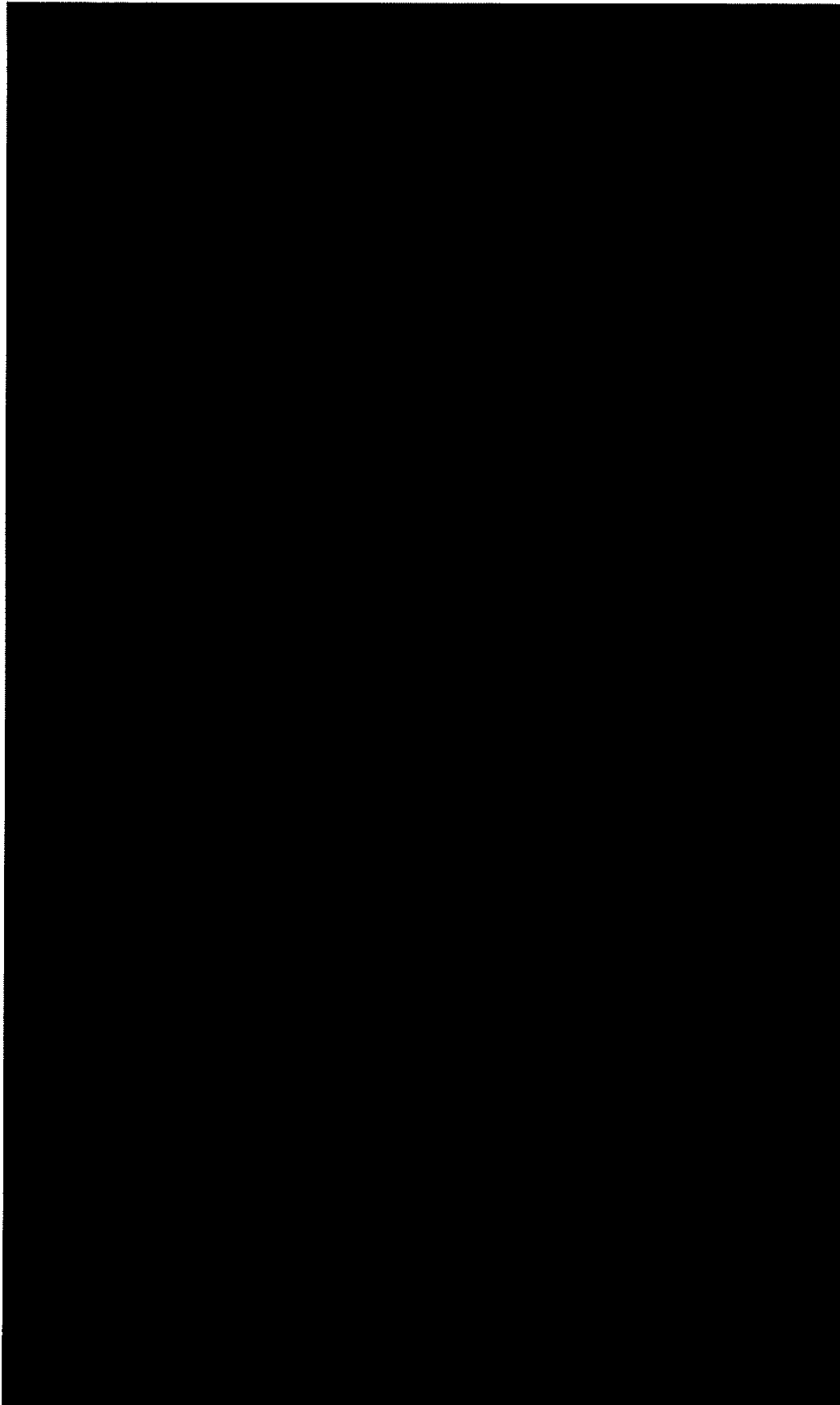


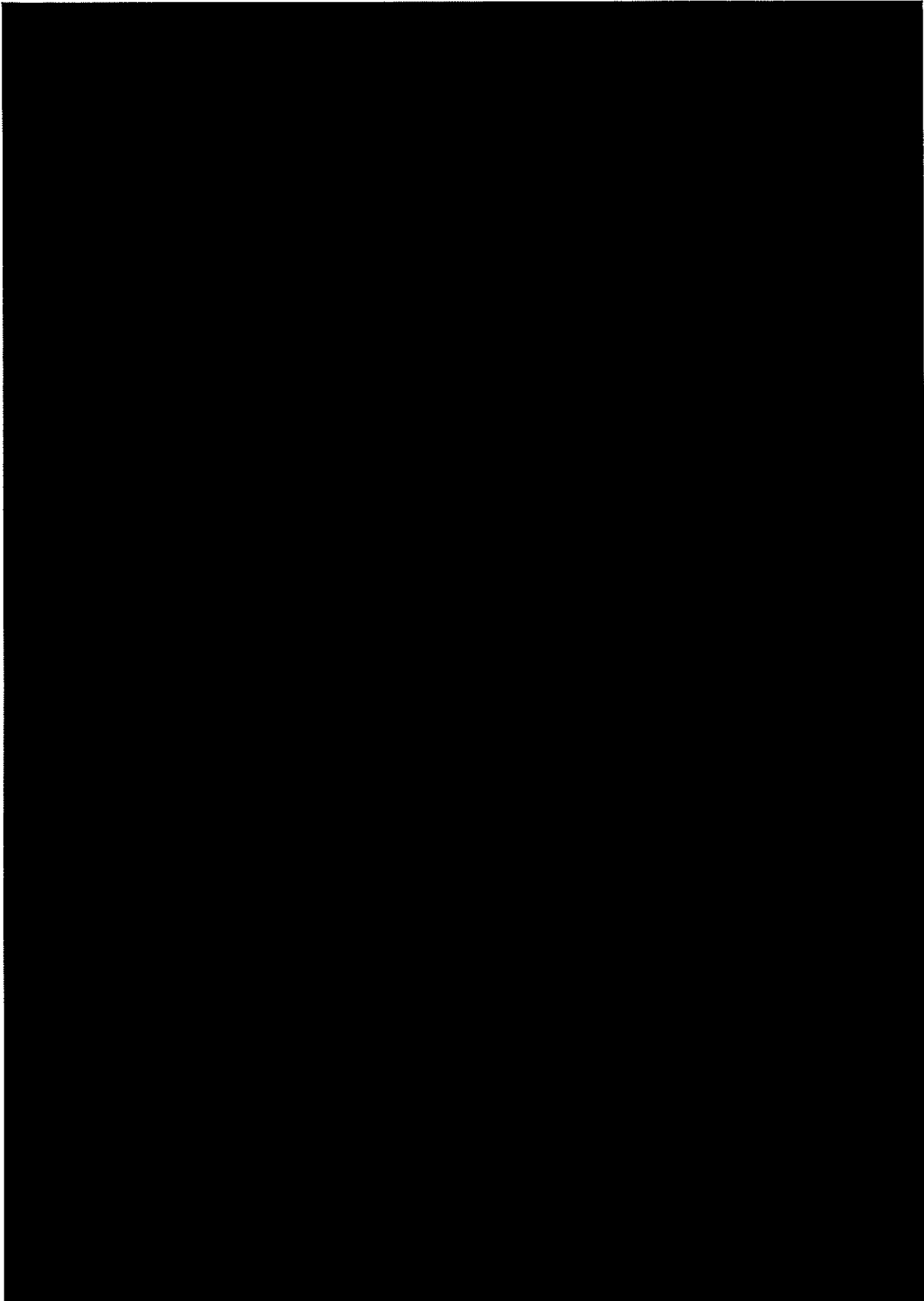


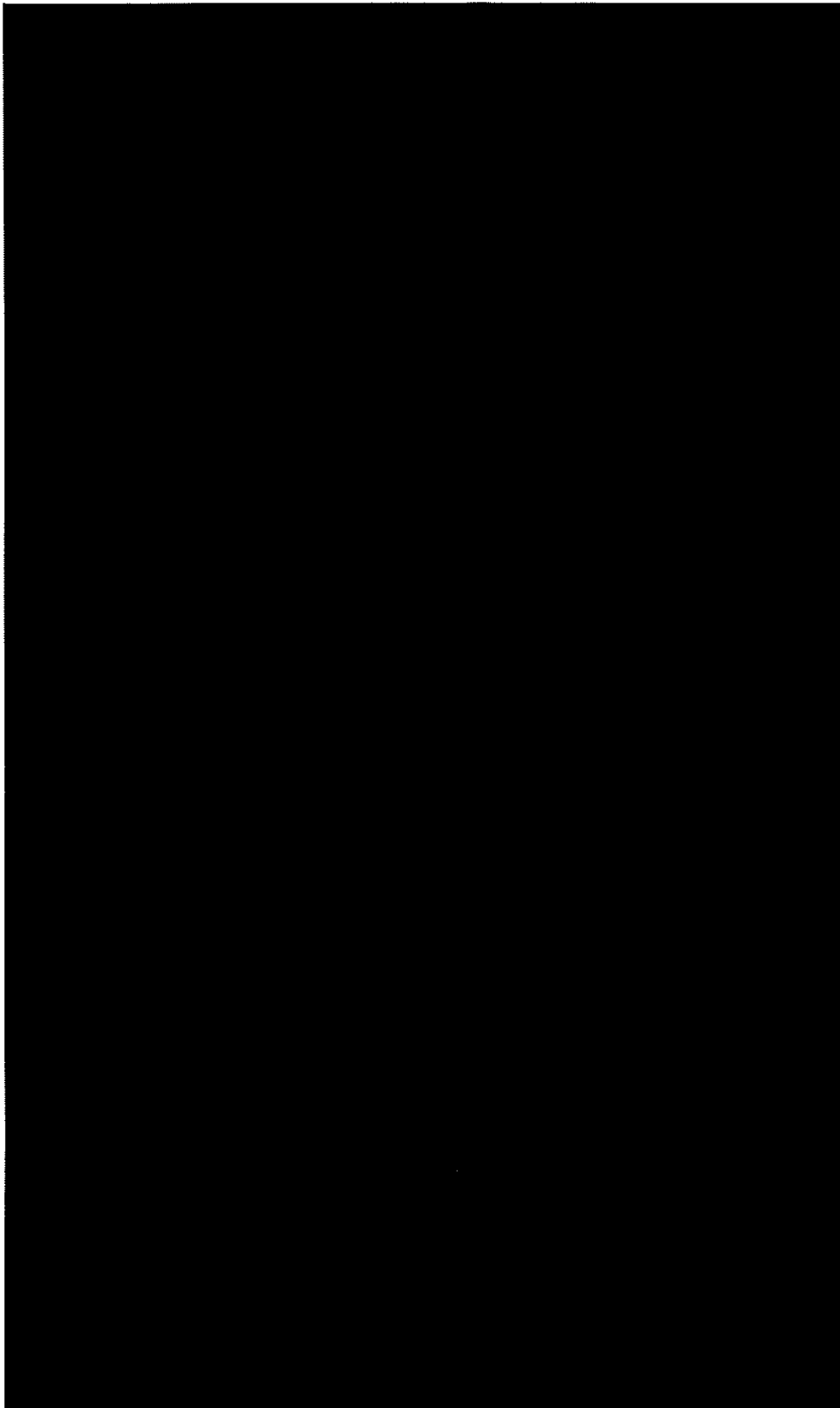












## Appendix 14: Cleaning and Disinfection of the Micro- and Macro-Environment

Please describe the cleaning and disinfection methods in the Table below. Note the washing/sanitizing frequency and method for each of the following:

Area	Washing/Sanitizing Method (mechanical washer, hand washing, high-pressure sprayers, etc.)	Washing/Sanitizing Frequency	Chemical(s) Used*	Other Comments (e.g., autoclaved)
Micro-environment				
[REDACTED]	[REDACTED]	1-2 times/week	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	1-2 times/week	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	1-2 times/2-week period	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	1-2 times/2-week period	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]
[REDACTED]	[REDACTED]	1-2 times/2-week period	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]

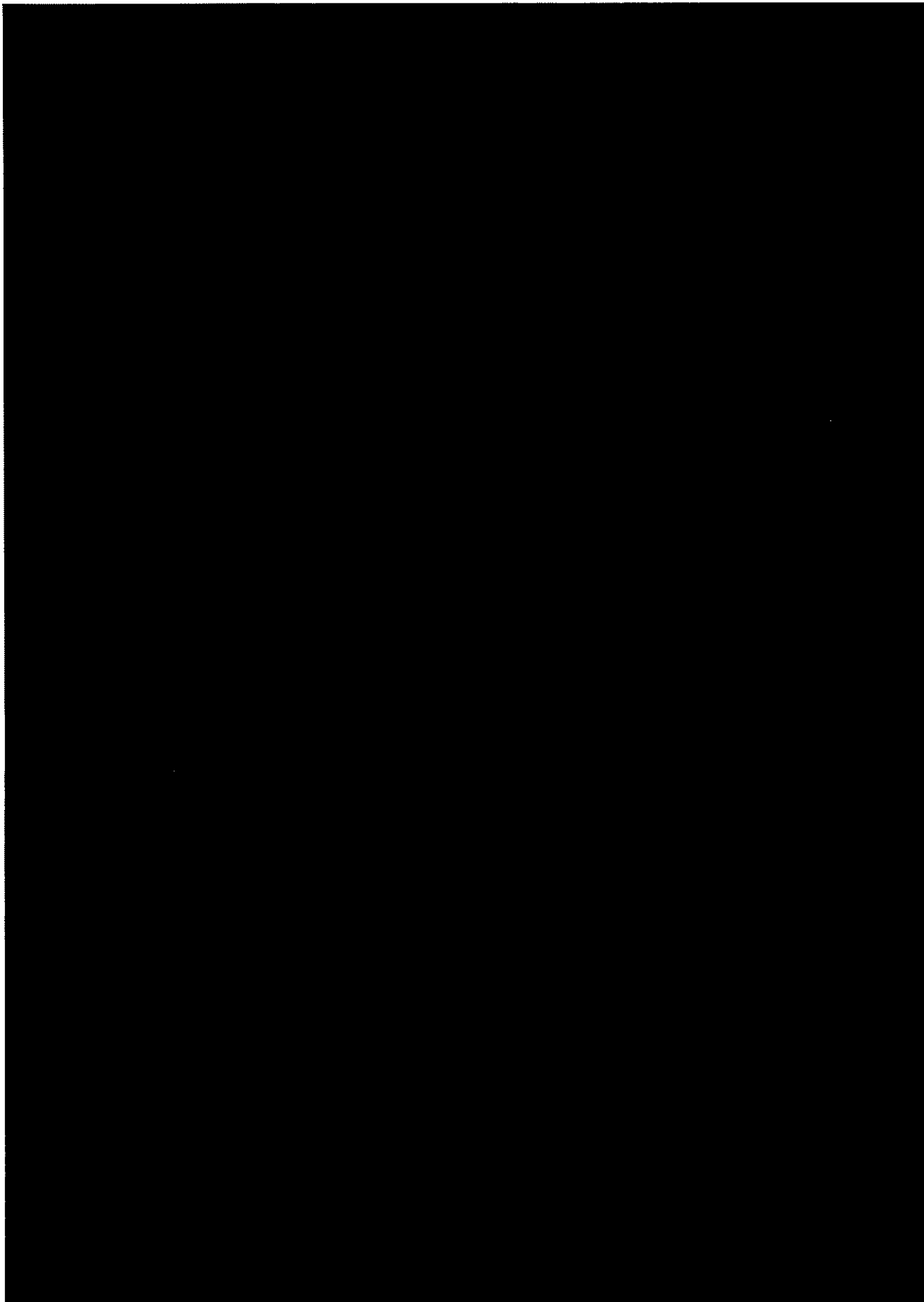


## Appendix 14: Cleaning and Disinfection of the Micro- and Macro-Environment

Area	Washing/Sanitizing Method (mechanical washer, hand washing, high-pressure sprayers, etc.)	Washing/Sanitizing Frequency	Chemical(s) Used*	Other Comments (e.g., autoclaved)
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Macro-Environment				
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

## Appendix 14: Cleaning and Disinfection of the Micro- and Macro-Environment

Area	Washing/Sanitizing Method (mechanical washer, hand washing, high-pressure sprayers, etc.)	Washing/Sanitizing Frequency	Chemical(s) Used*	Other Comments (e.g., autoclaved)
Ceilings	Hand washed	As needed	[REDACTED]	
Ducts/Pipes	N/A	N/A	[REDACTED]	
Fixtures	Hand washed	As needed	[REDACTED]	
<b>Corridors:</b>				
Floors	Swept and mopped	Daily	[REDACTED]	[REDACTED]
Walls	Hand washed	As needed	[REDACTED]	
Ceilings	Hand washed	As needed	[REDACTED]	
Ducts/Pipes	Hand washed	As needed	[REDACTED]	
Fixtures	Hand washed	As needed	[REDACTED]	
<b>Support Areas</b> [REDACTED]				
Floors	Mopped	Weekly or as needed	[REDACTED]	
Walls	Hand washed	As needed	[REDACTED]	



## Appendix 15: Facilities and Equipment for Sanitizing Materials

In the Tables below, summarize the facilities and equipment used to sanitize

[REDACTED]	[REDACTED]	[REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED]
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]
[REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED]



## Appendix 16: Lighting Summary

Using the Table below, summarize the lighting system(s) for [REDACTED] list light intensity (range), construction features (e.g., water resistance), photoperiod (light:dark) and control (e.g., automatic versus manual, phasing). For systems automatically controlling photoperiod, describe override mechanisms (including alarms, if applicable).

Location: [REDACTED]

Room Type <sup>(a)</sup>	Light Intensity Range	Lighting Fixture Construction Features <sup>(b)</sup>	Photo-period (hrs) <sup>(c)</sup>	Photoperiod and Lighting Control	Override Mechanisms (if applicable)
[REDACTED]	211-409 lux	Recessed, water resistant; some rooms equipped with red lights; some rooms use reverse light cycle	[REDACTED]	[REDACTED]	Mechanical on/off switch
[REDACTED]	Not measured	Recessed, water resistant	N/A	N/A	N/A
[REDACTED]	Not measured	Recessed	N/A	N/A	N/A
[REDACTED]	Not measured	Recessed	N/A	N/A	N/A
[REDACTED]	Not measured	Recessed	N/A	N/A	N/A
[REDACTED]	Not measured	Recessed, water resistant	N/A	N/A	N/A
[REDACTED]	Not measured	Recessed, water resistant	12:12	[REDACTED]	Mechanical on/off switch
[REDACTED]	Not measured	Surface mounted	N/A	N/A	N/A

<sup>(a)</sup> A list of each room is not needed; group or cluster rooms by [REDACTED] or function

<sup>(b)</sup> Include such features as water resistance, red lighting, etc.

<sup>(c)</sup> Note if light cycle inverted/reversed.

