

EXTERMINATION OF THE AREA (ANIMAL HOUSE)

 UNIVERSITÀ DEGLI STUDI DI PALERMO	Standard Operating Procedure (SOP)	Document Code: POS-03 Revision №: 0 Page 1 of 4 Annexes: 0
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Title: DISINFESTATION OF AIR, FLOORS AND WORK SURFACES OF THE ANIMAL HOUSE OF THE DEPARTMENT OF BIOPATHOLOGY AND MEDICAL AND FORENSIC BIOTECHNOLOGY

Changes to previous versions:		
Date	Ref. Point	Reason for the change
Changes are highlighted underlined in the procedure		

Rev.	Issuing Date	Preparation	Technical Verification (RBA)	RQ Verification	Approval Director of the Dept
0	15/04/2014	Guido Sireci			
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1. Purpose and field of application

The purpose of this procedure is to provide a general guidelines necessary to carry out the correct procedure for the annual disinfestations of the rooms and work surfaces of the animal house, located in the General Pathology Section of the University of Palermo. The present procedure arises from the need to guarantee, in housing environments, the total absence of crawling and flying insects potentially dangerous for the shelter and welfare of animals kept for scientific use, with particular relevance to the immunocompromised ones.

2. Reference Documents

- Directive 2010/63 / EU on the protection of animals used for scientific purposes;
- Manual of Biosafety in Laboratories (World Health Organization);
- Guide for the care and use of animal laboratories, 8th edition. National Research Council of the National Academies (USA);
- Legislative Decree 4 March 2014, n. 26, on "Implementation of Directive 2010/63 / EU on the protection of animals used for scientific purposes";
- Recommendation of the European Commission of 18/6/2007 on guidelines for the arrangement and protection of animals used for experimental purposes or for other scientific purposes;
- UNI EN ISO 9001: 2008IFS (version 5/2007) - chap. 4.10: Pest monitoring/control.

3. Definitions

- Disinfestation: it represents all the operations useful to eliminate the presence of harmful organisms from any environment in question;
- Nebulization: it is the reduction of a liquid in microscopic drops through the use of an air-jet at high speed and compression (spray);
- Monitoring: constitutes the planned and carefully documented sequence of measurements and/or observations of significant factors for the prevention or control of pests;
- Personal protective equipment (PPE): shoes, laboratory coats, nitrile gloves, disposable masks and caps.

4. Abbreviations

- AWM: Animal Welfare Manager;
- PPSM: Prevention and Protection Service Manager;

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- PPE: Personal Protective Equipment.

5. Responsibility

- The PPSM, specifically the company Anticimex Srl, certified according to the UNI EN ISO 9001: 2008, with its specialized technical staff is responsible for the periodic disinfestation and monitoring of flying and crawling insects inside the enclosure premises;

- The AWM is responsible for guaranteeing and verifying the correct application of this procedure and entrusting the execution of all its phases to the Technical Staff;

- The PPSM collaborates with the RBA regarding the choice of reagents and products to be used for the application of this procedure, the preparation of the Operative Sheet A.1 and the use of the disinfestants;

- The Technical Personnel is responsible for the execution of the phases assigned by the AWM.

6. Operational criteria

The authorized personnel involved in the disinfestation procedures, in order to ensure the lowest possible concentration of surface and air contaminants dispersed in environments subjected to disinfestation interventions, will comply with the standard operating procedures described by SOP_01 (CLEANLINESS OF AIR, FLOORS AND WORK SURFACES IN THE LOCAL CORRIDOR OF THE ANIMAL HOUSE OF THE DEPARTMENT OF BIOPATHOLOGY AND MEDICAL AND FORENSIC BIOTECHNOLOGY). The equipment and materials used in the disinfestation phases must be introduced into the animal house premises only after disinfection.

6.1 Instruments and equipments

The certified company Anticimex Srl uses the following tools for monitoring procedures:

- Actinic light lamps, equipped with an adhesive panel for the capture and monitoring of flying insects;

- Traps equipped with glue strips and food attraction, specific for the capture and monitoring of different types of crawling insects;

- Cold nebulizer for the killing of detected flying pests.

6.2 Reagents and reference materials

For annual periodic disinfestation and for the killing of flying pests detected as a result of monitoring, the certified Anticimex Srl company uses the natural product Pyrethrum.

Depending on the type of crawling pest detected following monitoring, the most suitable disinfestation system is agreed upon by the PPSM with the AWM.

6.3 Precautions

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The technical staff of the Anticimex Srl and all the professionals involved in the execution of the disinfection procedures will have to comply with the following tasks:

- Observe the provisions and instructions provided by the AWM;
- Use the PPE in an appropriate manner, in compliance with the recommendations indicated by the Professional Risk Prevention and Protection Service;
- Comply with the Safety Data Sheets and the Operating Sheets of the products used;
- Scrupulously comply with the provisions of POS_01: entry mode in the animal house.

For all that is not expressly indicated, reference should be made to the Workers' Safety regulations, as per D. L. of 9 April 2008, № 81.

6.4 Methods and times of execution

The disinfection procedure of the animal house premises will be carried out by the technical staff of the company Anticimex Srl every year in the early morning hours, in order to make accessible the disinfested rooms to the operators in the subsequent working hours. Before starting, as an additional precautionary measure, operators will take care to hermetically seal the rooms in which the animals are housed. Under normal conditions the disinfection will occur through the use of Fendona 60, (Alfamestrina - substance with insecticidal action belonging to the chemical family of Pyrethroid). In the case of proven presence of contaminating agents, the disinfection will take place by spraying a product of natural and effective origin based on Pyrethrum with a decedence time of about 4 hours. The premises will be constantly monitored for the presence of flying and crawling pests from the tools provided by Anticimex Srl, through an eMonitoring program.

6.5 Collection, processing and expression of results

The electronic monitoring system eMonitoring, provided by the company Anticimex Srl, provides for the creation of codes (QR CODE) that define the location and the type of insect caught according to the threshold values established in the phase of stipulation of the monitoring contract. The Anticimex technician, by reading the code, detects the monitoring data that will be sent in real time to the customer's e-mail address. Thanks to the speed in the transmission of data, it will be possible to intervene promptly if the infestation is found. All the data collected by the Anticimex technicians during the operations is stored in a special online database available to the customer. The customer can therefore consult at any time: the collection of individual reports relating to visits performed; the detailed list of the checks carried out; the trend of monitoring data; the information on the type of pest monitored; the corrective actions and advice that Anticimex operators reported during the checks. The monitoring and disinfection reports are collected in the "pest control book" that can be viewed at the premises of the animal house.