

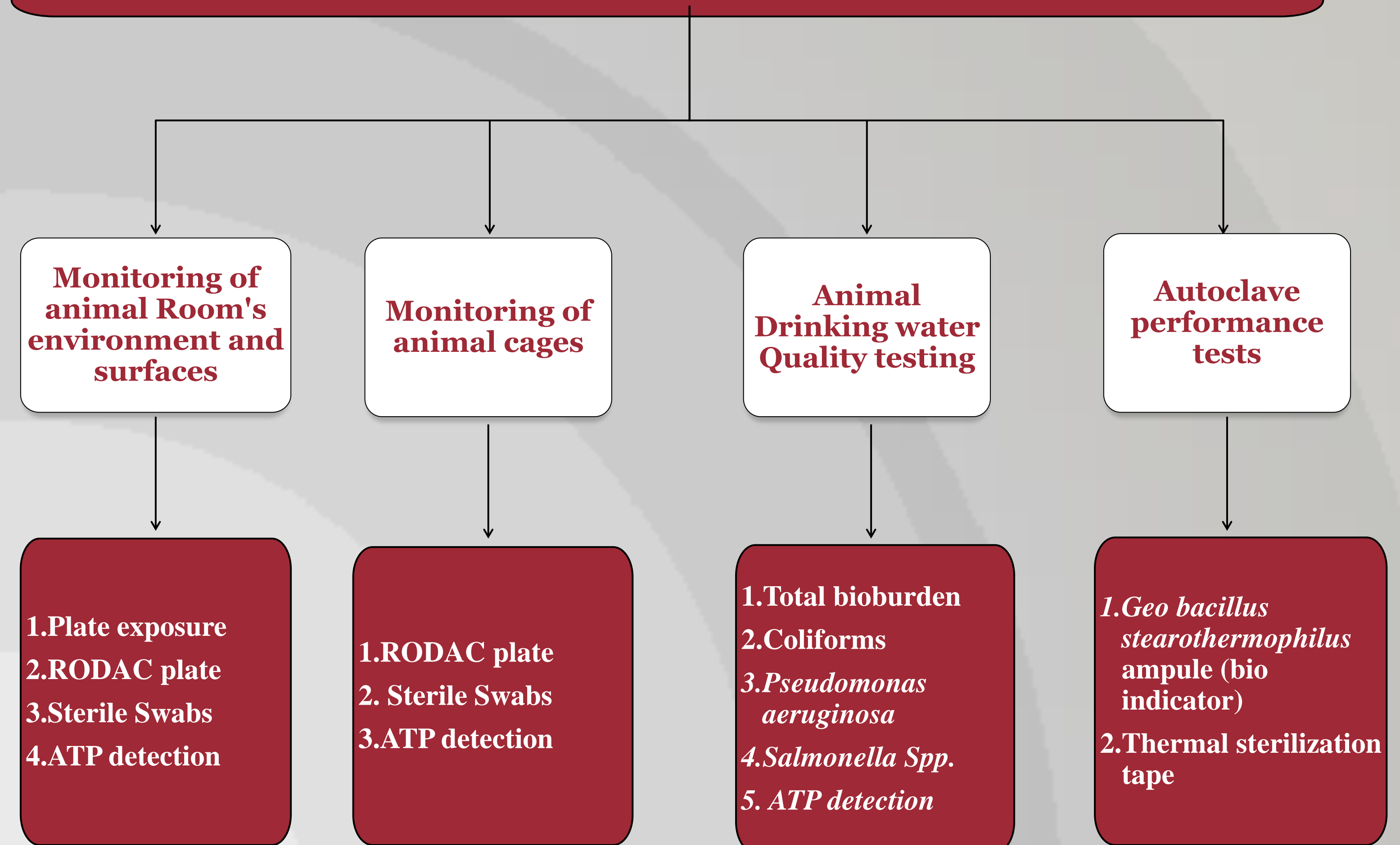
Environmental Health Monitoring Program (EHMP) of LARC

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INTRODUCTION

- ✓ Routine environmental monitoring is the prime necessity to maintain a Specific Pathogen Free (SPF) facility.
- ✓ Monitoring the animals & its environment is important to control the contamination and outbreak of disease
- ✓ Appropriate documentation, labeling, handling, time, source, collection, transport, processing & storage of samples are important to keep the sample integrity.
- ✓ The sampling process needs to be well coordinated with both the vivarium and lab team.
- ✓ Proper disposal should be maintained throughout the sampling process.
- ✓ The animal holding rooms are monitored for both the microbial contamination and keep the husbandry, washing area of the facility free from contamination.

PROGRAM OVERVIEW



SAMPLING, PROCESSING & METHODS

Swab

- Sterile swabs spread on the surface of the experimental area

Water

- Different water samples are collected and plated in respective pathogen selective media immediately

Serum

- Collect blood samples in vacutainer tube. Centrifuge and aliquot the serum. Store - 20 °C

Nasopharynx/oral swap

- Collect the different swab samples and plate in respective pathogen selective media immediately

Perianal tape test

- Restrain the mouse & apply the middle of the tape firmly to the mouse's perineum, including the perianal area repeat it (3 times) on a slide and observe under microscope

Fur Pluck

- Restrain the mouse. Grasp the fur with hemostats and pluck the fur gently. Place the fur on the tape & apply on a slide. Observe under microscope

Fecal float test

- Collect 2-5 fecal pellets, add floatation medium, mash & stir thoroughly. Place the cover slip on the meniscus of medium. Parasite eggs & protozoan oocysts will rise and adhere to the cover slip. Observe under microscope

Tissues

- Formalin fixed paraffin-embedded tissue specimens are prepared accordingly. Stain & observe under microscope

Urine

- Collect the urine samples carefully. The type of urine & the collection procedures are depends upon the tests to be performed. Aliquot the sample & store at - 20 °C

Blood /Fecal (DNA/RNA)

- Collect the blood samples in EDTA vacutainer tube. Fecal pellets are collected in sterile vial. Process it immediately using kit protocol or store at - 20 °C

SOURCE OF THE SAMPLES

