Animal Health Monitoring Program (AHMP) of LARC
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INTRODUCTION

✓ Animal health monitoring is important to maintain the health of the animals used for research purpose.
✓ Maintaining healthy research animals is the prime requisite for best research outcomes.
✓ Health monitoring is performed as per the recommendation issued by the Federation of European Laboratory Animal Science Associations (FELASA).

PROGRAM OVERVIEW

- Quarterly testing
  - Microbiology
  - Serology
  - Parasitology
  - Molecular Diagnostics
- Biannual testing
  - Water quality test
  - Microbiology
  - Serology
  - Parasitology
  - Molecular Diagnostics
- Annual testing
  - Hematological testing
  - Biochemical analysis

METHODS

Our panel of protocols include serology, diagnostic microbiology, parasitology and molecular testing by PCR.

a. Microbiological methods: Microbiological testing of pathogens is routinely carried out using Cecal & oral samples from sentinels, quarantine & breeding colonies of LARC.

b. Serological methods: Serum samples are collected from the animals and screened by ELISA method.

c. Molecular diagnostics: Real time PCR is used to detect the pathogens. DNA & RNA are extracted from various samples such as Blood, Fecal & Tissues and processed for the analysis

d. Hematological Analysis: Blood samples from the testing animal are checked for any blood abnormality using Hematology analyzer.

e. Biochemical Analysis: Biochemical testing of blood and Urine samples are routinely carried out by automated biochemistry Analyzer.

f. Parasitology: Testing animals are subjected for routine parasitological analysis. Fur samples are used for ecto parasitic identification, fecal pellet and anal smear for endo parasitic analysis.

g. Histology: Different tissues samples are collected, sectioned, stained & observed microscopically for any abnormality.

MOUSE/RAT BACTERIAL & VIRAL AGENTS

Testing quality assured through standard operating procedure (SOPs) and validation of results from the international certified laboratories.