



IACUC Policy 1000 : Use of Microbiological Agents in Animal Study Policy

1. Definition of Key Terms Specific to this Policy

- A. **Agents at Biosafety Level 1** refer to a microbiological agent which causes no harm or disease on animal and/or human. The listed agents in this level are based on section VIII of Microbiological and Biomedical Laboratories (BMBL) and Pathogens and Animal Toxins Act of Thailand.
- B. **Agents at Biosafety Level 2** refer to an agent which can cause harm or disease on animal and/or human and other Hazards, which include percutaneous injury, ingestion, mucous membrane exposure. The listed agents in this level are based on section VIII of Microbiological and Biomedical Laboratories (BMBL) and Pathogens and Animal Toxins Act of Thailand.

2. Guideline to Conduct Research

- A. All proposed use of microbiological agents must be included in the animal protocol and approved by IACUC. Microbiological agents need to be evaluated by the IACUC and Institutional Biosafety Committee of Thammasat University (IBC) according the section VIII of Microbiological and Biomedical Laboratories (BMBL) and Pathogens and Animal Toxins Act of Thailand.
- B. Agents list in biosafety level 1 (BSL 1) and 2 (BSL 2) are allowed to conduct in Laboratory Animal Center, Thammasat University (LAC-TU).
- C. Study must follow animal biosafety level 1 (ABSL-1) practice plus:
 - a. Standard microbiological practices following BMBL Section IV guideline
 - b. Controlled access
 - c. Biohazard warning signs
 - d. “Sharps” precautions
 - e. Biosafety manual
 - f. Decontamination of all infectious wastes
 - g. Decontamination of clothing before laundering
 - h. Decontamination of animal carcass
 - i. Cages decontaminated before bedding is removed
- D. Requirements of primary barrier and safety equipment of approved study include:
 - a. Individually ventilated cage (IVC) with negative pressure for housing animals
 - b. Class II BSCs available for manipulative procedures (inoculation, necropsy)
 - c. PPE: Laboratory coats, gloves, face, eye and respiratory protection, shoe cover as needed
 - d. Containment equipment for cage dumping activities

3. Additional requirement

IBC and OHS Advisor may advise additional requirement regarding the practice of the study or primary barrier and safety equipment upon the assessment of agents and approached of the study.