



Microbiological Services

Routine microbiological surveillance of animals helps to maintain the integrity of your research program. We can help you monitor your laboratory animal colonies for bacteria.

Microbiological Testing in Support of Animal Health Monitoring

Our laboratory screens animals for both primary and opportunistic pathogens as part of every health monitoring protocol. We collect and screen cultures for the presence of aerobic, anaerobic, and microaerophilic bacteria that may interfere with research results. In addition, we offer antimicrobial sensitivity testing.

Respiratory and Enteric Cultures

Each health monitoring protocol includes screening for both respiratory and gastrointestinal pathogens. Isolation of respiratory pathogens is performed by bacterial culture of nasal and/or bronchial fluid aspirates collected aseptically at necropsy. Isolation of enteric bacteria is performed by post-mortem culturing of organisms from the gastrointestinal tract obtained by mucosal scrape and/or lumen content collection. Additionally, any lesions noted during necropsy are cultured. Upon request, we also perform skin cultures to detect bacteria and fungi.

Organ and Abscess Lesions Cultures

Swabs or samples of organs and abscess lesions may be submitted to our laboratory for bacterial or fungal culture. It is important to use aseptic technique during sample collection. Whole tissue samples should be transported in a sterile container with enough sterile saline to cover the sample.

Study Support

Our microbiology laboratory conducts non-GLP clinical studies in research animals. Experienced staff can assist in developing pilot studies and protocols for animal models of infectious diseases, wound healing, as well as compound efficacy studies.

Identification Methods

- **API®:** This manually-operated system uses standard biochemical reactions to identify bacterial contaminants.
- **Vitek®:** This self-contained automated system uses optic technology to interpret biochemical reactions used to identify bacteria.
- **Sequence Determination:** We utilize DNA sequencing to confirm positive findings in the rare case of an ambiguous identification from standard methods.

To request free shipping materials or a cost estimate, visit us online at www.criver.com/info/quotes.