



Australian Government

Assessment Requirements for ACMATE506 Assist to collect and transfer embryos of mice

Release: 2

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Modification History

Release	Comments
Release 2	This version released with ACM Animal Care and Management Training Package Version 3.0.
Release 1	This version released with ACM Animal Care and Management Training Package Version 1.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has:

- assisted to collect and transfer embryos of mice on at least two occasions, including:
 - complied with organisational protocols, policies and procedures, including Animal Ethics Committee (AEC), legislative and health and safety requirements, at all times
 - monitored the health and welfare of animals during and after procedures and provided appropriate care.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- principles and practices for mouse embryo transfer collection, including:
 - anatomical and physiological features of mice related to vasectomy, embryo collection and transfer
 - reproductive cycles relating to mouse embryo technology
 - mouse oogenesis, ovulation, conception and embryonic development
 - constitution, storage and use of proprietary embryo flushing, holding and culture media
 - super-ovulation regimens for mice
 - safe mouse handling techniques, including approved handling methods during the administration of substances and surgical procedures
 - euthanasia or humane killing techniques for culling mice for embryo collection or if suffering during or after surgery

- relevant common diseases, injuries and other impacts on mouse health and wellbeing, and characteristics of healthy, sick or distressed mice
- key requirements of the Australian Code for the Care and Use of Animals for Scientific Purposes relating to the collection and transfer of embryos of mice
- relevant state or territory legislation and regulations relating to:
 - practice of veterinary science
 - workplace health and safety
 - animal welfare and research, including the Office of the Gene Technology Regulator and its impact on the work in assisting to collect and transfer embryos of mice
 - use of therapeutic and controlled substances
- organisational policies and safe work procedures, including:
 - emergency procedures
 - hygiene standards – disinfectants and cleaning agents, techniques, equipment and materials
 - infection control protocols
- relevant laboratory techniques and procedures, including:
 - methods used to collect, store and manipulate embryos from mice for re-derivation purposes
 - methods used to perform embryo transfer procedures in mice
 - surgery relevant to vasectomy, embryo collection and transfer
 - cryo preservation and recovery
 - aseptic techniques
 - relevant anaesthetics, analgesics and other medications used, and methods of administration for mouse surgery
- applicable industry quality assurance requirements and required documentation
- biosecurity issues relating to the collection of samples from animals
- relevant principles of animal welfare and ethics, including the 3Rs (replacement, reduction and refinement) and the 5 Domains.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - an animal research or production facility, or an environment that accurately represents workplace conditions that has a scientific establishment licence and access to an approved AEC
- resources, equipment and materials:
 - mice used in research.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103>