

Agence canadienne d'inspection des aliments

Canadian Food Inspection Agency



Our vision:

To excel as a science-based regulator, trusted and respected by Canadians and the international community.

Our mission:

Dedicated to safeguarding food, animals and plants, which enhances the health and well-being of Canada's people, environment and economy.

Containment Standards for Facilities Handling Aquatic Animal Pathogens

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Outline

- Overview of the Canadian Food Inspection Agency's (CFIA) Office of Biohazard Containment & Safety.
- Containment Standard for Facilities Handling Aquatic Animal Pathogens:
 - Background information
 - Overview
- Importing Aquatic Pathogens and Certification of Aquatic Containment Facilities.
- Contact Information.

Canadian Food Inspection Agency



Science and Business Integration



OFFICE OF BIOHAZARD **CONTAINMENT AND SAFETY (OBCS)**

Biosafety

& Certification

Biocontainment Animal Pathogen **Importation**

Standards and **Guidelines**

Biosafety Services

Laboratory Safety

Laboratory Safety

Radiation Safety

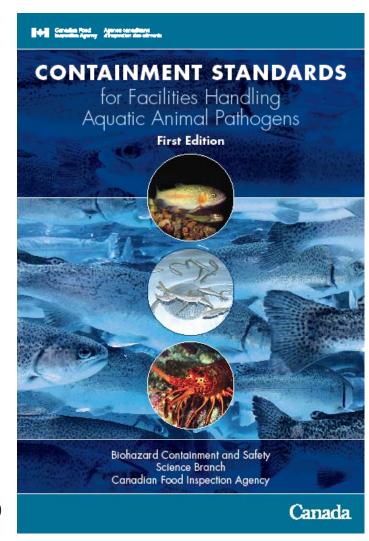
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Background Information

- Development process initiated with Fisheries and Oceans Canada.
- CFIA's Aquatic Animal Health
 Division was established in
 2005 as part of the National
 Aquatic Animal Health
 Program.
- Health of Animals Act give
 CFIA the legislative authority to govern the importation of







Overview

- Applies to all facilities that import aquatic animal pathogens, aquatic animal by-products, or other organisms that may carry an aquatic animal pathogen.
- Outlines the minimum physical and operational requirements for the containment facilities above.
- Provides general guidance on design and operating requirements for any aquatic animal containment

Overview (cont'd)

- Common principles from the Containment Standards for Veterinary Facilities (CSVF) and the PHAC Laboratory Biosafety Guidelines (LBG);
 - 3 Aquatic Containment levels (AQC1-AQC3);
 - AQC4 not explained as there aren't any aquatic pathogens that fit this criteria;
 - Aquatic pathogens are categorized in Risk Groups.
- Some differences between terrestrial animal pathogen containment and aquatic animal pathogen containment
 - i.e., redundant effluent treatment for AQC2 in vivo.

Aquatic Containment Level 1

- Corresponds to a well run laboratory or aquatic animal holding facility.
- Pathogens used can be found in the aquatic environment and are not a risk to aquatic animals or environment.
- Follows basic biosafety and biosecurity protocols
 - i.e., use of lab coats, hand washing stations, standard biohazard waste sites and disposal, good micro technique, decontamination procedures, SOPs etc.).
- Certification/verification is not required.

Aquatic Containment Level 2 in vitro

- Similar to animal containment level 2 facility.
- Containment achieved through:
 - facility design (i.e., chemical and heat resistant surfaces etc);
 - operational procedures (i.e., training in biosafety and containment precautions, limited access to authorized personnel, use of BSCs etc.); and
 - specialized equipment (i.e., autoclave).
- Self certification checklist is required.

Aquatic Containment Level 2 in vivo

- Some key additional requirements above AQC2 in vitro:
 - Redundant effluent treatment system;
 - Dedicated area or room dedicated to necropsies;
 - Anteroom; and
 - All live animal holding requirements (i.e., foot baths, dedicated euthanasia equipment, tank covers, etc.).
- Certification is required.

Aquatic Containment Level 3

- Containment achieved through:
 - highly specialized facilities;
 - stringent operational procedures; and
 - use of specialized equipment.

 Certification is required for both in vitro and in vivo facilities.

Aquatic Containment Level 3 (cont'd)

- Some key additional requirements:
 - Restricted access through controlled access system;
 - Dedicated anterooms with change areas;
 - Effluent treatment system with redundancy; and
 - Full clothing change before.
- Large scale work and production of aquatic animal pathogens may require enhancements.
- Additional requirements may be required for aquatic animal pathogens transmitted via the airborne route.

Status

- Standards have come into effect January 1, 2011.
- Aquatic Animal Health Division within CFIA provides guidance on aquatic pathogens and confirms appropriate containment levels.

OBCS provide guidance for the importation and certification.

 Veterinary Biologics Section within CFIA involved in large scale production facilities.

Contact Information

Office of Biohazard Containment & Safety http://www.inspection.gc.ca/english/sci/bio/bioe.shtml

- Standards and Guidelines Program standardsnormes@inspection.gc.ca
- Biocontainment and Certification Program biocon@inspection.gc.ca
- Animal Pathogen Import Program importzoopath@inspection.gc.ca

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