

Attachment 11-4: Quarantine Requirements for the Importation of Frozen Deer Semen

1. The quarantine requirements regulate the importation of frozen semen of the Cervidae family (hereinafter referred to as “deer semen”).
2. Testing referred to in these requirements must be conducted by laboratories owned, designated or approved by the government of the exporting country using methods listed in these requirements; or prescribed, recommended or considered suitable by the World Organisation for Animal Health (OIE) Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (hereinafter the OIE Manual) for confirmation of population or individual animals being free from infection with pathogens of corresponding diseases. For diseases with no such testing methods prescribed, recommended or considered suitable in the OIE Manual, methods that have been published in international scientific journals may also be used.
3. Deer semen is allowed to be imported only from countries or zones recognized by the central competent authority of the importing country as being free from foot and mouth disease (FMD) and peste des petits ruminants (PPR).
4. For the donor male deer (hereinafter referred to as the “donor deer”), the following requirements shall be complied with:
 - 4.1 Donor deer have not been served for natural mating.
 - 4.2 Donor deer have been raised in the exporting country (zone) where no cases of chronic wasting disease (CWD) have been confirmed in the past 5 years.
 - 4.3 Donor deer are raised for at least 1 year prior to collection or since birth in the semen collection centers or farms supervised and regularly inspected by a competent authority of the exporting country.
 - 4.4 Donor deer shall not be vaccinated against FMD and PPR.
 - 4.5 The following tests/treatments shall be conducted with negative results within 30 days prior to collection:
 - 4.5.1 For FMD: Serum neutralization test (virus neutralization, VN), enzyme-linked immunosorbent assays (ELISA) or complement fixation test;
 - 4.5.2 For vesicular stomatitis: VN, ELISA or complement fixation test;
 - 4.5.3 For bluetongue: ELISA , polymerase chain reaction (PCR), agar gel immunodiffusion assay (AGID), or VN;
 - 4.5.4 For paratuberculosis: ELISA or delayed-type hypersensitivity (DTH) skin test;
 - 4.5.5 For brucellosis (*Brucella abortus*, *B. melitensis* and *B. suis*): ELISA, complement fixation test, buffered Brucella antigen test (BBAT) or fluorescence polarization assay (FPA);
 - 4.5.6 For tuberculosis: Intradermal tuberculin test;

- 4.5.7 For herpes virus infection: More than 10 % of the semen of all donor deer for each consignment are sampled and mixed for at least 5 straws which are cultured in vitro using bovine embryonic lung cell line for at least one blind passage with negative results;
- 4.5.8 For epizootic haemorrhage disease of deer: ELISA or AGID;
- 4.5.9 For louping ill: Hemagglutination inhibition assay;
- 4.5.10 For leptospirosis: Deer shall be injected with long-acting oxytetracycline (20 mg/kg) or other equivalent medicine once within 14 to 30 days prior to collection; and
- 4.5.11 Other tests that are provisionally designated by the import/export animal quarantine authority of the importing country in response to international epidemic.
- 4.6 No clinical signs of the diseases listed in Article 4.4 and Article 5 are found on donor deer within 30 days before collection and on the day of collection.
- 5. For semen collection centers or farms mentioned in Article 4, no cases of louping ill, bluetongue, tuberculosis (*Mycobacterium bovis*, *M. caprae* and *M. tuberculosis*), paratuberculosis, malignant catarrhal fever, Borna disease, brucellosis, and Q fever have been confirmed in the previous year; and no cases of herpes virus infection, infectious bovine rhinotracheitis, bovine viral diarrhea, PPR, epizootic haemorrhage disease of deer, bovine ephemeral fever, bovine genital campylobacteriosis, leptospirosis and trichomoniasis have been confirmed in the past 6 months.
- 6. The storage and transportation of deer semen shall comply with the following requirements:
 - 6.1 The containers (ampules, vials and straws) containing the semen are sealed by veterinarians accredited by the exporting country immediately after collection.
 - 6.2 The identification number shall be indelibly marked on the sealed containers containing the semen.
 - 6.3 The tanks or container marked with the following information are cleaned and sterilized before use and only added with new liquid nitrogen: the breed and identification numbers of donor deer, collection date, name of the establishments where donor deer were raised, the quantity of each consignment, the country of destination, and name and address of the importer.
- (4) The sealed consignment has to be stored in premises approved by the exporting country prior to export.
- 7. The sealed deer semen diluents shall not be contaminated by any pathogen of FMD, PPR and CWD.
- 8. The management of the semen collection centers or farms, and the collection, processing and storage of semen shall be in compliance with relevant chapters of the

OIE Terrestrial Animal Health Code (hereinafter the OIE Code) with regard to semen collection, processing and storage.

9. Each consignment shall be accompanied by an original veterinary certificate issued by the veterinarians of the animal quarantine authority of the exporting country. The certificate shall state the following information in English or Chinese:

- 9.1 Origin:

- 9.1.1 Total quantity;

- 9.1.2 Date of collection and identification numbers of the exported ampules, vials or straws;

- 9.1.3 Breed of the donor deer and identification numbers;

- 9.1.4 The exporting country;

- 9.1.5 Name and address of the establishment of origin of the donor deer;

- 9.1.6 Name and address of the semen collection center or farm;

- 9.1.7 Name and address of the establishment of storage; and

- 9.1.8 Name and address of the exporter

- 9.2 Destination:

- 9.2.1 Country of destination; and

- 9.2.2 Name and address of the importer.

- 9.3 Result of the quarantine:

- 9.3.1 Statement attesting that the deer semen fulfills the requirements stipulated in Articles 3 to 8;

- 9.3.2 Date of sampling, and methods, dates and results of the tests. The name of the journals, the publication date, and title of the associated articles are required when using methods published in international scientific journals;

- 9.3.3 Types of vaccines and dates of administration on donor deer.

- 9.4 Date of issuance, name and official stamp of the issuing authority, and name and signature of the issuing officer.

10. Regarding the disease tests, quarantine measures and treatments stated in Article 4.5, the exemption of implementing the requirements or adopting the alternative measures may be applied with providing evidence in compliance with the OIE Code by the competent authority of the exporting country to the import/export animal quarantine authority of the importing country.

For the said application, inspectors may be dispatched to conduct an on-site audit if necessary. The expenditure will be at the exporting country's expense. For exporting country which has signed bilateral or multilateral agreement with the importing country, the expenses should be shouldered according the agreement.