

Attachment 12-1: Quarantine Requirements for the Importation of Bovine Embryos

1. The quarantine requirements regulate the importation of embryos of the Bovinae subfamily (hereinafter referred to as “bovine embryos”).
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. Bovine embryos are 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 contagious bovine pleuropneumonia (CBPP).
4. For the donor male and female embryo-producing animals (hereinafter referred to as the “donor animals”), the following requirements shall be complied with:
 - 4.1 Donor animals shall originate from the province (state) or equivalent administrative area where no lumpy skin disease (LSD) has been confirmed in the previous 3 years.
 - 4.2 Donor animals shall be raised for at least 6 months prior to collection of semen/embryos or since birth in the embryos collection centers/semen collection centers or farms supervised by a competent authority of the exporting country.
 - 4.3 Donor animals shall not be vaccinated against FMD, LSD and CBPP.
 - 4.4 The following tests shall be conducted and must have negative results unless the diseases have not occurred in the exporting country in the previous 5 years at least, according to the OIE reports or other international epidemiological information. The tests of bluetongue, *Brucella abortus*, enzootic bovine leucosis and FMD may be exempted as the embryos are collected and transplanted according to the methods recommended by the International Embryo Transfer Society (IETS):
 - 4.4.1 For FMD: Serum neutralization test (virus neutralization, VN), enzyme-linked immunosorbent assays (ELISA) or complement fixation test;
 - 4.4.2 For CBPP: ELISA or complement fixation test;
 - 4.4.3 For bluetongue: Complement fixation test, ELISA, or agar gel immunodiffusion assay (AGID);
 - 4.4.4 For brucellosis (*Brucella abortus*, *B. melitensis* and *B. suis*): Complement fixation test, ELISA, or serum tube agglutination test (SAT) with a result of 50 IU/ml or below;
 - 4.4.5 For tuberculosis: Intradermal tuberculin test;
 - 4.4.6 For bovine genital campylobacteriosis: Culture of vaginal mucus or preputial washings or polymerase chain reaction (PCR), excluding donor animals that are not

naturally mated;

- 4.4.7 For trichomonosis: Microscopic examination and culture or PCR of vaginal mucus or preputial washings, excluding donor animals that are not naturally mated;
 - 4.4.8 For enzootic bovine leucosis: AGID or ELISA;
 - 4.4.9 For vesicular stomatitis: VN, ELISA or complement fixation test;
 - 4.4.10 For paratuberculosis: Complement fixation test, ELISA or fecal culture test;
 - 4.4.11 For Schmallenberg virus: PCR; and
 - 4.4.12 Other tests that are provisionally designated by the import/export animal quarantine authority of the importing country in response to international epidemic.
- 4.5 No clinical signs of the diseases listed in Article 4.3 and Article 5 are found on donor animals within 30 days prior to collection of semen/embryos.
5. For the embryos collection centers/semen collection centers or farms mentioned in Article 4, no cases of brucellosis, tuberculosis (*Mycobacterium bovis*, *M. caprae* and *M. tuberculosis*), malignant catarrhal, paratuberculosis (Johne's disease), bluetongue, and pseudorabies (Aujeszky's disease) have been confirmed within 1 year prior to collection of semen/embryos; and no cases of enzootic bovine leucosis, bovine viral diarrhea, infectious bovine rhinotracheitis, infectious pustular vulvovaginitis, bovine genital campylobacteriosis, trichomonosis and leptospirosis have been confirmed within 6 months prior to collection of semen/embryos. If the zona pellucida of embryo remains intact after washing with the methods recommended by International Embryo Transfer Society (IETS), the durations of 1 year and 6 months in this Article may be reduced to 6 months and 3 months.
 6. The collection, processing, storage and transportation of embryos shall not be contaminated by the pathogens of infectious animal diseases.
 7. 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:
 - 7.1 Origin:
 - 7.1.1 Total quantity;
 - 7.1.2 Dates of collection of semen and embryos;
 - 7.1.3 The exporting country;
 - 7.1.4 Name and address of the embryos collection center/semen collection center or farm;
and
 - 7.1.5 Name and address of the exporter.
 - 7.2 Destination:
 - 7.2.1 Country of destination; and
 - 7.2.2 Name and address of the importer.
 - 7.3 Result of the quarantine:
 - 7.3.1 Statement attesting that the bovine embryos fulfill the requirements stipulated in Articles 3 to 6.
 - 7.3.2 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. For animal diseases that are exempted from testing pertaining to Article 4.4, the following statements shall be noted: The status of the diseases have not occurred in the exporting country in the previous 5 years; the embryos are collected and transplanted according to methods recommended by the IETS; or donor animals are not tested for corresponding diseases for not being naturally mated.

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