

Quarantine Requirements for the Importation of Caprine and Ovine Embryo from the United States of America

1. The caprine and ovine embryo (hereafter referred to as embryo in these Requirements) apply to *in vivo* derived caprine and ovine embryo, meaning the embryo recovered after fertilization and development has occurred in live sheep and goats.

Before importation of the embryo from the United States, according to the Animal Industry Act, it is required to obtain a permit from the central competent authority of this country. It is also required to apply for the quarantine requirements from the animal quarantine authority of this country, and the imported embryo shall comply with these Requirements.

2. The importation of embryo from the United States shall comply with following requirements:
 - (1) The United States has been recognized by the central competent authority of this country as a country free from foot and mouth disease and rinderpest.
 - (2) In accordance with OIE Terrestrial Animal Health Code, the United States has been free from contagious caprine pleuropneumonia.
 - (3) Rift Valley fever has not occurred for the past four years in the United States.
 - (4) Foot and mouth disease, rinderpest, vesicular stomatitis, scrapie, peste des petits ruminants, sheep pox and goat pox, Maedi-visna, enzootic abortion of ewes (ovine chlamydiosis), ovine epididymitis (*Brucella ovis*), caprine and ovine brucellosis (excluding *Brucella ovis*), tuberculosis, contagious caprine pleuropneumonia, contagious agalactia, and Nairobi sheep disease, are all notifiable diseases.

- (5) Caprine arthritis/encephalitis, bluetongue, paratuberculosis, Q fever, Salmonellosis (*S. abortusovis*), and leptospirosis are reportable to OIE semiannually or annually.
- (6) The following measures for scrapie have been implemented in the United States:
 - i. The feeding of ruminants with meat-and-bone meal and greaves derived from ruminants has been banned and the ban has been effectively enforced by the United States.
 - ii. Scrapie-affected sheep and goats are destroyed.
3. The donor rams and ewes shall be in compliance with the following requirements:
 - (1) The donor rams and ewes shall originate from States where vesicular stomatitis has not occurred for the past year.
 - (2) The donor rams and ewes have resided for one year prior to semen and embryo collection or since birth on a premises which has been approved by the United States Department of Agriculture (USDA), in compliance with the following:
 - i. USDA accredited veterinarians are responsible for the diseases diagnosis and notification;
 - ii. Peste des petits ruminants, sheep pox and goat pox, and Maedi-visna have not occurred on the farm for the past three years;
 - iii. Bluetongue and enzootic abortion of ewes (ovine chlamydiosis) have not occurred on the farm for the past two years;
 - iv. Caprine arthritis/encephalitis, ovine epididymitis (*Brucella ovis*), Caprine and ovine brucellosis, tuberculosis, paratuberculosis (Johne's disease), contagious caprine pleuropneumonia, and Q fever have not occurred on the farm in the previous year; and
 - v. Contagious agalactia and leptospirosis have not occurred during

the past 6 months.

- (3) Confirm that the donor rams and ewes originate from an establishment which has been in compliance with the scrapie free establishment requirements of the World Organization for Animal Health (OIE) Terrestrial Animal Health Code for the past seven years or originate from a flock which has been certified by the USDA Voluntary Scrapie Flock Certification Program to have complete monitored status. (This section only applies to goat embryo, not applicable for sheep embryo)
 - (4) The donor rams and ewes shall not have been vaccinated against foot and mouth disease, bluetongue, or contagious caprine pleuropneumonia.
4. Prior to the semen and embryo collection, the donor rams and ewes shall be inspected and found free from clinical evidence of any communicable disease. The donor rams and ewes shall be subjected to the following tests, treatments, and quarantine measures by the USDA or it's designated laboratory not less than 30 days and not more than 60 days prior to the semen and embryo collection, and shall not have contact with the rams and ewes which do not produce the same batch of embryo export to Taiwan.

The rams and ewes shall be subjected to the following tests with negative results:

- (1) Tuberculosis: intradermal tuberculin test (Testing is required within the previous 6 months for donor rams and ewes originating from states considered free of Tuberculosis);
- (2) Paratuberculosis (Johne's disease): ELISA;
- (3) Bluetongue: ELISA; RT-PCR or VI
- (4) Caprine and ovine brucellosis (excluding *Brucella ovis*):
Brucella-buffered antigen test or complement fixation test or

ELISA;

(5) Ovine epididymitis (*Brucella ovis*): complement fixation test or ELISA;

(6) Enzootic abortion of ewes (ovine chlamydiosis): complement fixation test; and

(7) Maedi-visna: AGID or ELISA.

Leptospirosis treatment: the donor rams and ewes shall be injected with long-acting oxytetracycline (20 mg/kg).

5. Embryos shall be collected on farms or collection centers approved by the USDA. The farms or the embryo collection centers shall be in compliance with the following:

(1) A USDA accredited veterinarian shall confirm that the embryo is collected, processed, preserved, and transported in compliance with the requirements of International Embryo Transfer Society (IETS) Manual and the OIE Terrestrial Animal Health Code;

(2) The embryo shall be securely packed in a container and stored in a liquid nitrogen tank. Information including identification number of the donor ram and ewe, breed, date of embryo collection, name and address of embryo collection establishment, and identification number of the embryo container shall be marked outside the tank; and

(3) The embryo shall not have contact with other embryos that has not complied with these Requirements during the collection, processing, preserving, and transportation process.

6. The imported embryo shall be accompanied by an original veterinary certificate issued by the animal quarantine authority of the United States and the certificate shall state the following detailed information in English:

(1) Origin of the embryo, the donor rams and ewes:

- i. Species, scientific name, and identification number of the donor rams and ewes;
 - ii. Quantity and identification number of the embryo;
 - iii. Exporting country;
 - iv. Animal quarantine authority of the exporting country;
 - v. Name and address of the farms of the donor rams and ewes;
 - vi. Name, address of the embryo collection center;
 - vii. Name, address of the embryo storage facility;
 - viii. Name and address of the exporter or the exporting company;
and
 - ix. Date of embryo collection.
- (2) Destination:
- i. Country of destination; and
 - ii. Name and address of the importer or the importing company.
- (3) Results of quarantine inspection:
- i. Name of the testing laboratory, dates of sample collection and testing, testing methods, and the results of the tests; and
 - ii. Attest in writing that the health status of the embryo, donor rams, and ewes are in compliance with Article 2 to Article 5 of these Requirements.
- (4) Date, place, and authority of issuance of the veterinary certificate, official stamp, and the name and signature of the veterinary officer.