

## 10.3 Artificial Insemination - Porcine

This module describes requirements for export eligible porcine semen that is for domestic use and owner's use only.

### Porcine

#### Export Eligible Semen

**Requirements for boar intended for entry into a semen collection centre to produce semen for export:**

1. Identification can be either an official HofA tag, a legible tattoo, or a plastic tag with identification of the farm of origin and a unique number for the animal. Animals improperly identified or that have lost their identification will be rejected when they arrive at the isolation facility of the AI centre and retested at the centre's expense.
2. The herd of origin must not be subject to any quarantine and the animals must be subject to the following tests with negative results, unless otherwise specified, within the 60 days preceding entry into the isolation facility of the centre:

**Note:** Centres approved for export to the EC must have animals tested within the 30 days preceding entry into the isolation facility of the centre.

- i. **Brucellosis** - (serum) BPAT and TAT and CF test at 1/5.

**Note:** Centres approved for export to China must have all animals obtain a result of less than 30 IU when tested by TAT.

- ii. **Leptospirosis** - (serum) Microagglutination test (MAT) - *L. pomona* and *L. sejroe*. Boars with a test result of 1:100 or 1:200 must be retested after a minimum interval of 14 days and obtain a stable titre to be considered negative and eligible for entry into the isolation facility of the centre.
- iii. **Transmissible Gastroenteritis (TGE)** - (serum) serum neutralisation (SN) test or ELISA test. In the event of a positive reaction to the SN test, the laboratory conducts an ELISA test; if the ELISA test is negative, the animal is eligible to enter the isolation facility of the centre.
- iv. **Aujesky's disease** - (serum) ELISA test.

3. A *CFIA/ACIA 1634 Certificate of Health for Entry into a Semen Production Centre* must accompany the animal to the isolation facility of the centre. (Refer to paragraph 11 of [10.1 Artificial Insemination - Background Information](#) for distribution.)

## Domestic Use Semen

***Requirements for boar intended for entry into a semen collection centre to produce semen for distribution in Canada (This semen is not eligible for export and may only be used within Canada.):***

4. Identification can be an official HofA ear tag, a legible tattoo, or a plastic tag with identification of the farm of origin and a unique number of the animal. Animals improperly identified or that have lost their identification will be rejected upon arrival at the isolation facility of the centre and will be retested at the expense of the centre.
5. The herd of origin must not be subject to any quarantine and the animals must be subject to the following test with negative results, unless otherwise specified, within the 60 days before entry into the isolation facility of the centre:
  - i. **Transmissible Gastroenteritis** - (serum) SN or ELISA test  
  
In the event of a positive reaction to the SN test, the laboratory conducts an ELISA test; if the ELISA test is negative, the animal is eligible to remain in the centre.
6. A *CFIA/ACIA 1634 Certificate of Health for Entry into a Semen Production Centre* must accompany the animal to the isolation facility of the centre. (Refer to paragraph 11 of [Module 10.1](#) for distribution details.)

## Isolation Health Requirements of Semen Donor Boars

(For distribution in Canada only)

7. All qualifying and testing procedures associated with the assessment of the isolation health status of semen donor boars may be performed by a veterinarian authorized to perform these functions as an accredited veterinarian.
8. All animals presented for entry as additions to the resident herd of a semen production centre must undergo a minimum period of 30 days in an isolation facility maintained by the centre; the isolation period may begin when all animals are present in the isolation facility.

9. An animal is to be considered eligible for entry into isolation only if a certificate of health completed by an accredited veterinarian as per paragraph 6 above accompanies the animal to the centre.
10. An identification check is conducted on each animal against the certificate of health presented by the centre. Animals improperly identified or that have lost their identification will be rejected upon arrival at the isolation facility of the centre and retested at the expense of the centre.
11. All animals presented for entry as additions to the semen production centre must receive an injection of dihydrostreptomycin (25 mg per kg of body weight) or an alternate antibiotic at the dosage recommended by the manufacturer, as a preventive measure against leptospirosis.
12. While in the isolation facility and after a minimum of 30 days in isolation, the pre-entry test must be repeated with negative results, unless otherwise specified, as follows:
  - i. **TGE** - (serum) SN test or ELISA test.  
  
In the event of a positive reaction to the SN test, the laboratory would conduct the ELISA test; if the ELISA test is negative, the animal would be eligible to remain in the centre.
13. In the event of a suspicious or positive reaction being reported during the pre-entry isolation testing regime, the individual animal is to be removed from the group. The remaining animals must not be released for entry into the production centre until either the suspect animal has been confirmed negative or removed from isolation and the negative status of the remaining animals reconfirmed for the disease in question.
14. Removal of donors from isolation either to enter the resident herd following the test referred to above or to leave the centre, must be done only with the permission of the accredited veterinarian.
15. A boar resident in a semen production centre for distribution in Canada does not qualify to enter the isolation facility of a export semen production centre. Such a resident boar must comply with the pre-entry requirements for export eligible semen (See *Export Eligible Semen* section above) to enter the isolation facility of an export eligible semen production centre.

## Owner's Use Only Semen

16. **Fresh semen**-collected on the premises of a swine herd by the owner for use in females present on the same premises-does not require the issuance of any CFIA permit. Such fresh semen cannot be traded or sold and cannot leave the premises. No record of semen collected for this purpose is required.
  
17. Fresh semen from swine-collected for any purpose other than for use on the legal premises-must be collected in an approved semen collection centre. This does not apply to semen collected for the purpose of evaluating the fertility of the donor, but which is not intended to be inseminated into a female.