



Semen and Embryos from Horses (*Equidae*)

HORSSEMB.SPE

Title

Guidance Document: Semen and Embryos from Horses (*Equidae*)

About this document

This guidance document contains information about acceptable ways of ensuring compliance with the requirements in the *Import Health Standard (IHS): Semen and Embryos from Horses (Equidae)*.

Any guidance on how to comply with the applicable requirements may not be the only way to achieve compliance. Stakeholders are encouraged to discuss departures from the approaches outlined in this guidance document with the Ministry for Primary Industries (MPI) to avoid expending resources on the development of alternative approaches which may later be considered unsuitable.

The term “must” is not typically used in guidance. In this particular document if the term “must” is used, it is used in the context of quoting or paraphrasing the requirements set out in the related *IHS: Semen and Embryos from Horses (Equidae)*.

Related requirements

Import Health Standard: Semen and Embryos from Horses (Equidae).

Contact details

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Disclaimer

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Draft for Consultation

1 Purpose

- (1) This guidance document has been issued to accompany the *IHS: Semen and Embryos from Horses (Equidae)*. This guidance document should be read in conjunction with that standard.
- (2) This document includes:
 - a) A table listing countries with MPI approved export systems to import equine semen and embryos into New Zealand.
 - b) Model semen and embryo veterinary certificates.
 - c) Links to the negotiated country-specific certificates.

2 Background

- (1) The *IHS: Semen and Embryos from Horses (Equidae)* which this guidance document accompanies manages the biosecurity risk of importing semen and embryos from horses (*Equidae*) from those countries covered by the IHS (Australia, Canada, the EU, Switzerland, Norway and the USA) and in doing so meet New Zealand's appropriate level of protection. This guidance document contains a model veterinary certificate and the links to the bilaterally agreed country-specific veterinary certificates to be used for trade in semen and embryos from horses (*Equidae*). The country-specific veterinary certificate represents what will be certified prior to exporting consignments of semen and embryos from horses (*Equidae*) from the country specified.
- (2) General information about importing semen and embryos can be found here: <http://www.mpi.govt.nz/importing/live-animals/animal-germplasm/>

3 Definitions

- (1) Refer to Schedule 2 of the *IHS: Semen and Embryos from Horses (Equidae)*.

4 Importer responsibilities

- (1) The costs to MPI in performing functions relating to the importation of semen and embryos from horses (*Equidae*) will be recovered in accordance with the Biosecurity Act 1993 (the Act) and any regulations made under that Act. All costs involved with documentation, transport, storage and obtaining a biosecurity clearance will be covered by the importer or agent.

5 Guidance

5.1 Equivalence and permits

- (1) MPI may accept an alternative method, system or process that can be shown to achieve the biosecurity requirements of the IHS (i.e. equivalence) under section 27(1)(d) of the Act.
- (2) MPI's preference is that the exporting country's Competent Authority makes equivalence requests. Equivalence requests can be lodged with animal.imports@mpi.govt.nz
- (3) A permit to import is not required to import semen and embryos from horses (*Equidae*) into New Zealand if the requirements of the IHS are met.
- (4) A permit may be required where specific equivalence measures are approved by MPI as per the equivalence clause in the IHS. A permit to import serves as evidence of equivalence decisions and will be written as specific notes in the special conditions section of the permit.

- (5) Permit to import application forms can be found on the MPI website at:
<http://www.mpi.govt.nz/document-vault/3137>.
- (6) Completed applications are lodged with animal imports animalimports@mpi.govt.nz.

5.2 Inspection and verification

- (1) On arrival, all documentation accompanying the consignment will be verified by an inspector. The inspector may also inspect the consignment, or a sample of the consignment on arrival.
- (2) Inspectors are able to inspect and verify due to their authorised powers under the Act.

5.3 Specified countries

- (1) The IHS is for semen and embryos of *Equidae* from specified countries. These countries are listed in the IHS. The IHS is based upon an import risk analysis (2009 IRA) written for specified countries which include Australia, Canada, the USA and the EU. Based on equivalent disease freedom status, Switzerland and Norway are included in the IHS. Full justification of measures in the IHS can be found in the risk management proposal (link to be inserted).
- (2) Competent Authorities of other countries must approach MPI for approval of their exporting systems to allow for imports of semen and embryos of horses into New Zealand. Approval will also require an expansion of the IRA to incorporate measures for these countries.

5.4 Incorporation of material by reference

- (1) Incorporation by reference means that standards, guidelines or lists are incorporated into the IHS and they form part of the requirements. This is done because technical documents are too large or impractical to include in the IHS.
- (2) Where the IHS states that section 142O(1) of the Biosecurity Act does not apply, this means that importers need to refer to the most recent version of any standards, guidelines or lists that are incorporated by reference in the IHS.

5.5 Diagnostic tests and vaccines

- (1) MPI lists all approved diagnostic tests, treatments and vaccines in the MPI document, *Approved Diagnostic Tests, Vaccines, Treatments and Post-Arrival Testing Laboratories for Animal Import Health Standards* ([MPI-STD-TVTL](#)).
- (2) Where OIE recommended diagnostic tests and vaccines are listed, details can be found in the OIE *Manual of Diagnostic Tests and Vaccines* found on the OIE website: <http://www.oie.int/en/international-standard-setting/terrestrial-manual/access-online/>.

5.6 Semen collection and processing

- (1) The current recommendations of the OIE *Code* Chapter 4.6.6. on the conditions applicable to the collection of semen:
 - a) The floor of the mounting area should be clean and provide safe footing. A dusty floor should be avoided.
 - b) The hindquarters of the teaser, whether a dummy or a live teaser animal, should be kept clean. A dummy should be cleaned completely after each period of collection. A teaser animal should have its hindquarters cleaned carefully before each collecting session. The dummy or

hindquarters of the teaser animals should be sanitised after the collection of each ejaculate. Disposable plastic covers may be used.

- c) The hand of the person collecting the semen should not come into contact with the animal's penis. Disposable gloves should be worn by the collector and changed for each collection.
 - d) The artificial vagina should be cleaned completely after each collection where relevant. It should be dismantled, its various parts washed, rinsed and dried, and kept protected from dust. The inside of the body of the device and the cone should be disinfected before re-assembly using approved disinfection techniques such as those involving the use of alcohol, ethylene oxide or steam. Once re-assembled, it should be kept in a cupboard which is regularly cleaned and disinfected.
 - e) The lubricant used should be clean. The rod used to spread the lubricant should be clean and should not be exposed to dust between successive collections.
 - f) The artificial vagina should not be shaken after ejaculation, otherwise lubricant and debris may pass down the cone to join the contents of the collecting tube.
 - g) When successive ejaculates are being collected, a new artificial vagina should be used for each mounting. The vagina should also be changed when the animal has inserted its penis without ejaculating.
 - h) The collecting tubes should be sterile, and either disposable or sterilised by autoclaving or heating in an oven at 180°C for at least 30 minutes. They should be kept sealed to prevent exposure to the environment while awaiting use.
 - i) After semen collection, the tube should be left attached to the cone and within its sleeve until it has been removed from the collection room for transfer to the laboratory.
- (2) Semen can be contained in various types of receptacles, such as a vial, goblet, ampoule, or straw, as long as they are tamper-evident and separate semen from individual donors.

5.7 Agreed country-specific veterinary certificates

- (1) Requests from exporting countries to negotiate veterinary certification for the import of semen and embryos from horses (*Equidae*) into New Zealand will be prioritised according to MPI resources available at the time of application.
- (2) A model veterinary certificate is provided in this guidance document and can be used by the Competent Authority as a reference for country-specific veterinary certificate negotiation.
- (3) All country-specific veterinary certificates agreed between an exporting country's Competent Authority and MPI are included in the following table:

- (4) For Semen

Country	Link to certificate	S27 CTO direction #	Date agreed	Date applicable for use

- (5) For Embryos

Country	Link to certificate	S27 CTO direction #	Date agreed	Date applicable for use

- (6) Country-specific veterinary certificates with equivalent measures will be recorded with a number relevant to a Chief Technical Officer (CTO) direction under section 27(1)d(iii) of the Act, to enable border staff to clear the goods and record the number in the MPI database.
- (7) When a newly negotiated country-specific veterinary certificate replaces one which is currently in use, the application of new import conditions will apply according to the dates listed in the table. At that time previous veterinary certificates for that country can no longer be used.
- (8) After issue of the IHS, the measures may be used by countries which already have an agreed veterinary certificate. Using the measures before a new country-specific veterinary certificate is agreed can create challenges at the time of biosecurity clearance. MPI should be notified prior to their use in order to provide clarification to border staff.
- (9) When a country-specific veterinary certificate is agreed, there will be a four-month transition period to allow donors to be prepared in accordance with the new conditions. During transition, both the old and the new import conditions are acceptable. After transition, the previous veterinary certificate for that country can no longer be used.
- (10) Currently there are no country-specific veterinary certificates for semen and embryos from horses (*Equidae*) imports into New Zealand under this IHS.

5.8 Antibiotics effective against Leptospirosis

- (1) Antibiotics that can be added to the semen or embryos of horses (*Equidae*) for export to New Zealand include, but are not limited to:
 - a) 500 IU per ml streptomycin; or
 - b) 500 IU per ml penicillin; or
 - c) 150 µg per ml lincomycin; or
 - d) 300 µg per ml spectinomycin; or
 - e) 50 µg per ml gentamycin; or
 - f) Minimally 1.0 mg per ml Ticarcillin and 0.5 mg per ml Amikacin (1,0mg/ml Timentin).
- (2) Refer to the MPI document, *Approved Diagnostic Tests, Vaccines, Treatments and Post-Arrival Testing Laboratories for Animal Import Health Standards* ([MPI-STD-TVTL](#)) for a complete list of approved antibiotics.

5.9 Model veterinary certificate for horse semen

Country:																																	
Part I: Details of dispatched consignment	I.1. Consignor (Exporter): Name: Address:		I.2. Certificate reference number:																														
			I.3. Competent Authority:																														
	I.4. Consignee (Importer): Name: Address:																																
	I.5. Country of origin ISO Code*		I.6. Zone or compartment of origin**:																														
	I.7. Country of destination: ISO Code*		I.8. Zone or compartment of destination**:																														
	I.9. Place of origin: Name: Address:																																
	I.10. Place of shipment:		I.11. Date of departure:																														
	I.12. Means of transport: <input type="checkbox"/> Aeroplane <input type="checkbox"/> Ship Identification:		I.13. Expected border post:																														
			I.14. CITES permit No(s)**:																														
	I.15. Description of commodity:		I.16. Commodity code (HS Code):																														
		I.17. Total quantity:																															
I.18. Temperature of commodities for transport <input type="checkbox"/> Chilled <input type="checkbox"/> Frozen		I.19. Total number of packages:																															
I.20. Approval number of establishments:		I.21. Type of packaging:																															
I.22. Commodities intended for use as: <input type="checkbox"/> Artificial Reproduction <input type="checkbox"/> Other																																	
I.23. Not Applicable:																																	
I.24. Identification of commodity:																																	
<table border="1"> <thead> <tr> <th>Species (Scientific Name)</th> <th>Nature of commodity</th> <th>Net weight</th> <th>Treatment type</th> <th>Lot ID/Date code</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Species (Scientific Name)	Nature of commodity	Net weight	Treatment type	Lot ID/Date code																									
Species (Scientific Name)	Nature of commodity	Net weight	Treatment type	Lot ID/Date code																													

Part II: Specific Requirements Country:	Certificate reference number:
<p>I,....., a veterinarian authorised by the veterinary authority certify, after due enquiry that the semen described above satisfy(ies) the following requirements:</p> <p>Eligibility</p> <ol style="list-style-type: none">(1) The semen is from equids.(2) The semen is fresh-chilled/frozen and non-genetically modified.(3) The semen is contained in (<i>delete as appropriate</i>)<ol style="list-style-type: none">a) Straws; orb) Ampoules; orc) Pellets. <p>Diagnostic testing, vaccination, and treatment</p> <ol style="list-style-type: none">(4) All required laboratory testing was conducted at a laboratory approved to conduct export testing by the Competent Authority of a country approved to export to New Zealand.(5) Tests used were listed in and carried out in accordance with the MPI document; <i>Approved Diagnostic Tests, Vaccines, Treatments and Post-Arrival Testing Laboratories for Animal Import Health Standards MPI-STD-TVTL</i>.(6) Copies of laboratory reports, or an endorsed, tabulated summary, including test date, type, and results for each donor, are attached to this veterinary certificate.(7) All products and vaccinations administered to donor animals for the purposes of meeting the specific disease requirements of this certificate were administered according to the manufacturer's instruction in a country approved to export to New Zealand. Vaccinations were either the final dose of a primary course or the recommended booster to complement the primary. <p>Semen collection facility requirements</p> <ol style="list-style-type: none">(8) The semen centre met the conditions specified in the OIE <i>Code</i> Chapter on general hygiene in semen collection and processing centres.(9) The semen centre was:<ol style="list-style-type: none">a) Approved for export by the Competent Authority.b) Subject to regular annual inspection by an Official Veterinarian.c) Under the supervision of a semen collection facility veterinarian approved by the Competent Authority.(10) The names and approval numbers of these semen centres are recorded in this veterinary certificate.(11) When donors were transferred from one approved semen centre to another of equal health status without isolation or testing, the following conditions were applied:<ol style="list-style-type: none">a) Donors were examined, by the approved semen collection facility veterinarian, and showed no clinical sign of disease on the day of entry into the facility.b) Transfer was direct.c) Donors were not in direct or indirect contact with animals of a lower health status.d) The means of transport used was disinfected before use. <p>Donor and semen centre health status</p> <ol style="list-style-type: none">(12) The approved semen centre veterinarian ensured that, on the day(s) of collection of the semen, the health status of each donor was monitored and recorded, and the donor did not show any clinical evidence of infectious diseases transmissible in semen.(13) The donor has been approved for the <enter years of breeding season> breeding season on <enter date>. (applicable to Australian stallions only; <i>delete if not applicable</i>) <p>Semen collection, processing, storage and transport</p> <ol style="list-style-type: none">(14) Semen was collected and processed in accordance with the current recommendations of the OIE <i>Code</i>, unless indicated otherwise in this IHS.	

- (15) None of the cryogenic or cooling agents have been previously used in association with any other product of animal origin.
- (16) Semen is in new or sanitised containers, which are sealed and tamper evident, and clearly and permanently marked to identify the donor and the date(s) of collection. A code is used for this information and its decipher accompanies the consignment (*delete as appropriate and initial*). The marking is in accordance with the OIE Code.
- (17) Semen for export has only been stored with semen that has been collected and processed in compliance with the OIE Code. Containers have been held until export in a storage place approved by the Competent Authority of the exporting country.
- (18) Semen was stored in the same container only with semen from donors of equivalent health status.
- (19) Semen was placed in a container which is sanitised and free of contamination.

Disinfectant (active chemical) and date (*delete and initial if the container was new*):

- (20) The transport container in which the semen is transported to New Zealand was sealed by either the semen collection facility veterinarian or an official veterinarian, using tamper-evident seals.

Seal number _____

- (21) The semen was transferred from one container to another (*delete if not applicable*).

Date of transfer _____

Reason for transfer _____

Facility _____

Veterinarian (name and signature): _____

- (22) Semen in this consignment originates from a different country than the exporting country (*delete as appropriate and initial*).

- a) The country of origin is currently approved to export to New Zealand.
- b) A letter from the Competent Authority or a certified New Zealand export certificate indicating its compliance with New Zealand requirements accompanies the consignment.
- c) The semen in this consignment has been verified as the same semen originating from <insert name of country of origin>.
- d) Since its arrival the semen has been stored in the facility stated in Part 1, under the supervision of the Competent Authority.

SPECIFIC REQUIREMENTS FOR IDENTIFIED RISK ORGANISMS:

- (23) **Equine herpesvirus-1 (EHV-1)** [abortigenic and paralytic forms]

Donor animals

- a) Have been kept for the 21 days prior to collection in an establishment where no case of EHV-1 (abortigenic and paralytic forms) was reported during that period.
- b) Showed no clinical signs of EHV-1 infection on the day of collection and during the 21 days prior to collection.

- (24) **Equine infectious anaemia (EIA)**

- a) Donors showed no clinical sign of EIA on the day of each collection; and
- i) Donors were kept on premises where no case of EIA has been reported during the 90 days prior to each collection; and
- ii) Donors were subjected to a test listed in the MPI document: *MPI Approved Diagnostic Tests, Vaccines, Treatments and Post-arrival Testing Laboratories for Animal Import Health Standards (MPI-STD-TVTL)*, either *
- i) Not less than 30 days after entry into the collection centre; or
- ii) 30-60 days after collection; or
- iii) Annually at the start of the breeding season,
- with negative results.
(*Delete as applicable)

- (25) **Equine viral arteritis (EVA)** (*delete as applicable*)

- a) Donors were kept in an establishment where no equid has shown any clinical sign of EVA for the 28 days immediately prior to semen collection and showed no clinical sign of EVA on the day of semen collection; and
- i) Were subjected between 6 and 9 months of age to a test for EVA as prescribed in MPI-STD-TVTL, with either
- i) A negative result, or
- ii) A positive result, followed at least 14 days later by a second test showing a stable or decreasing titre; and were subsequently vaccinated against EVA and regularly vaccinated according to the recommendations of the manufacturer;
- Vaccine name: _____

Vaccination date: _____

or

- ii) Were isolated and not earlier than seven days after commencing isolation, were subjected to a test for EVA as prescribed in MPI-STD-TVTL on a blood sample with negative results, vaccinated for EVA, kept for 21 days following vaccination separated from other equids and regularly revaccinated according to the recommendations of the manufacturer;

Vaccine name: _____

Vaccination date: _____

or

- iii) Were subjected to a test for EVA as prescribed in MPI-STD-TVTL on a blood sample with negative results within 14 days prior to semen collection, and had been separated from other equids not of equivalent health status for 14 days prior to blood sampling until the end of semen collection; or

- iv) Have been subjected to a test for EVA as prescribed in MPI-STD-TVTL on a blood sample with positive results and then either

i) Were subsequently test mated to two mares within 6 months prior to semen collection, which were subjected to two tests for EVA as prescribed in MPI-STD-TVTL with negative results on blood samples collected at the time of test mating and again 28 days after test mating; or

ii) Were subjected to a test for EVA as prescribed in MPI-STD-TVTL with negative results, carried out on semen collected within 6 months prior to collection of the semen to be exported; or

iii) Were subjected to a test for EVA as prescribed in MPI-STD-TVTL with negative results, carried out on semen collected within six months after the blood sample was collected then immediately vaccinated, and revaccinated regularly;

Vaccine name: _____

Vaccination date: _____

or

- v) For frozen semen, were subjected with negative results to either

i) A test for EVA as prescribed in MPI-STD-TVTL carried out on a blood sample taken not earlier than 14 days and not later than 12 months after the collection of the semen for export; or

ii) A test for EVA as prescribed in MPI-STD-TVTL carried out on an aliquot of the semen collected immediately prior to processing or on an aliquot of semen collected within 14 to 30 days after the first collection of the semen to be exported.

(26) Leptospirosis

- a) Antibiotics were added to collection, processing, washing and storage media.

Name and concentration of antibiotics:

(27) *Taylorella* spp. (Contagious equine metritis, CEM) (delete as applicable)

- a) Donors were from a country or zone where no case of CEM has been reported by the Competent Authority of the exporting country; or

- b) Donors were from a country with an official control programme for CEM; and

i) Showed no clinical sign of CEM on the day of each collection; and

ii) Have been subjected to a test* listed in MPI-STD-TVTL with negative results either

i) Twice with a 4-7 day interval during the 30 days prior to the collection period; or

ii) Annually at the start of the breeding season; and

iii) Have been protected against any possibility of contagion since the beginning of the tests; and

iv) Donors have not been treated with antibiotics for at least 7 days before commencing the testing and throughout the sample collection period; or

- c) Donors were known to have been infected with CEM; and

i) Were treated for CEM; and

ii) After treatment, were subjected to an effective method of testing* listed in MPI-STD-TVTL, with three swabs taken at 7-day with negative results; and

iii) Have been protected against any possibility of contagion since the beginning of the tests.

(*Swabbing sites are the prepuce, the urethral sinus and the fossa glandis (including its diverticulum))

Semen Centre Veterinarian:	Official Veterinarian:
Name:	Name:
Address:	Address:
Date:	Date:
Signature:	Signature: 

Draft for Consultation

This table accompanies the veterinary certificate with reference number: _____

Donor Information										
Name	Donor identification	Breed	Date of Birth	Country of Birth	Name of Owner	Address of Owner				
Semen information										
Donor identification	Date/s of collection	Straw identification	Number of Straws	Date of entry into semen collection centre	Name of semen collection centre	Address of semen collection centre	Semen collection centre approval number	Date of last inspection of semen centre		
Test information (Note that this information is to be amended as appropriate to the exporting country)										
Donor identification		Equine infectious anaemia virus			Equine viral arteritis virus			<i>Taylorella</i> spp (contagious equine metritis (CEM))		
		Test sampling date	Test type	Result	Test sampling date	Test type	Result	Test sampling date	Test type	Result

5.10 Model veterinary certificate for horse embryos

- (1) Below is a model veterinary certificate for trade in horse embryos, this model meets the requirements of the IHS.
- (2) The model certificate format is based on the OIE *Code* Chapter for model veterinary certificates for international trade in semen and embryos.

Country:																													
Part I: Details of dispatched consignment	I.1. Consignor (Exporter): Name: Address:		I.2. Certificate reference number: I.3. Competent Authority:																										
	I.4. Consignee (Importer): Name: Address:																												
	I.5. Country of origin ISO Code*		I.6. Zone or compartment of origin**:																										
	I.7. Country of destination: ISO Code*		I.8. Zone or compartment of destination**:																										
	I.9. Place of origin: Name: Address:																												
	I.10. Place of shipment:		I.11. Date of departure:																										
	I.12. Means of transport: <input type="checkbox"/> Aeroplane <input type="checkbox"/> Ship Identification:		I.13. Expected border post: I.14. CITES permit No(s)**:																										
	I.15. Description of commodity:		I.16. Commodity code (HS Code): I.17. Total quantity:																										
	I.18. Temperature of commodities for transport <input type="checkbox"/> Chilled <input type="checkbox"/> Frozen		I.19. Total number of packages:																										
	I.20. Approval number of establishments:		I.21. Type of packaging:																										
I.22. Commodities intended for use as: <input type="checkbox"/> Artificial Reproduction <input type="checkbox"/> Other																													
I.23. Not Applicable:																													
I.24. Identification of commodity:																													
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 2px;">Species (Scientific Name)</th> <th style="padding: 2px;">Nature of commodity</th> <th style="padding: 2px;">Net weight</th> <th style="padding: 2px;">Treatment type</th> <th style="padding: 2px;">Lot ID/Date code</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					Species (Scientific Name)	Nature of commodity	Net weight	Treatment type	Lot ID/Date code																				
Species (Scientific Name)	Nature of commodity	Net weight	Treatment type	Lot ID/Date code																									

<p>Part II: Specific Requirements</p> <p>Country:</p>	<p>Certificate reference number:</p>
<p>I,....., a veterinarian authorised by the veterinary authority certify, after due enquiry that the semen described above satisfy(ies) the following requirements:</p> <p>Eligibility</p> <p>(1) The embryos are from equids.</p> <p>(2) The embryos are <i>in vivo</i> derived, frozen, non-cloned, and non-genetically modified.</p> <p>Diagnostic testing, vaccination, and treatment</p> <p>(3) All required laboratory testing was conducted at a laboratory approved to conduct export testing by the Competent Authority of a country approved to export to New Zealand.</p> <p>(4) Tests used must be listed in and carried out in accordance with the MPI document; <i>Approved Diagnostic Tests, Vaccines, Treatments and Post-Arrival Testing Laboratories for Animal Import Health Standards MPI-STD-TVTL</i>.</p> <p>(5) Copies of laboratory reports, or an endorsed, tabulated summary, including test date, type, and results for each donor, are attached to this veterinary certificate.</p> <p>(6) All products and vaccinations administered to meet specific disease requirements were administered according to the manufacturer's instruction in a country approved to export to New Zealand. Vaccinations were either the final dose of a primary course or the recommended booster to complement the primary.</p> <p>Embryo collection team and herd approval requirements</p> <p>(7) At the time of collection of embryos for export to New Zealand, the embryo collection team was approved by and registered with the Competent Authority of the exporting country.</p> <p>(8) The Competent Authority has knowledge of and authority over the embryo collection herd until completion of collection and testing of the embryo(s) exported to New Zealand specified in this IHS.</p> <p>Donor and herd health status</p> <p>(9) Where a specific requirement for a risk organism is met by pre-collection testing, donors were isolated from other horses not of an equivalent tested health status, from the time of the pre-collection test until completion of collection of embryos for export to New Zealand.</p> <p>(10) On the day(s) of collection of the embryos, the approved embryo collection team veterinarian was responsible for monitoring the health status of each donor and recording that the donor was free from clinical evidence of infectious diseases transmissible in embryos.</p> <p>(11) The semen used to produce the embryos in the consignment either:</p> <p>a) was imported directly from New Zealand or is eligible for export to New Zealand; or</p> <p>b) was collected, processed, and stored at a semen collection facility that complies with the official semen collection facility protocols of the exporting country (where MPI deems this to be equivalent); or</p> <p>c) Where natural service or fresh semen was used, donor males were inspected, found free from clinical evidence of infectious diseases transmissible in semen, and satisfy the testing and isolation requirements for semen from horses.</p> <p>Embryo collection, processing, storage and transport</p> <p>(12) Embryos were collected and processed under the supervision of an approved embryo collection team veterinarian and in accordance with the recommendations in the OIE <i>Code</i> chapters on collection and processing of <i>in vivo</i> derived embryos of livestock.</p> <p>(13) Embryos had an intact zona pellucida and were free of adherent material after the final wash when examined over its entire surface at not less than 50X magnification. Any micro-manipulation that caused a breach of the zona pellucida, was performed according to the procedures described in the OIE <i>Code</i> and IETS <i>Manual</i>.</p> <p>(14) All biological products of animal origin used in the media and solutions for collection, processing, washing or storage of embryos were free from pathogenic organisms.</p> <p>(15) Media and solutions were either sterilised by approved methods according to the IETS <i>Manual</i> or commercially prepared sterile media were used. These were handled in such a manner as to ensure that sterility was maintained.</p> <p>(16) None of the cryogenic or cooling agent has been previously used in association with any other product of animal origin.</p> <p>(17) Embryos are sealed in receptacles, which are clearly and permanently marked to identify the donor and the date(s) of collection. A code is used for this information and its decipher accompanies the consignment (<i>delete as appropriate and initial</i>). The marking is in accordance</p>	

with the OIE Code.

(18) The embryo(s) for export has/have only been stored with embryos that have been collected and processed in compliance with the OIE Code. Containers have been held until export in a storage place approved by the Competent Authority of the exporting country.

(19) Embryos were placed in a container which is sanitised and free of contamination.

Disinfectant (active chemical) and date (*delete and initial if container was new*):

(20) The transport container in which the embryos are transported to New Zealand was sealed by either the embryo collection team veterinarian or an official veterinarian, using tamper evident seals.

Seal number _____

(21) The embryos were transferred from one container to another (*delete if not applicable*).

Date of transfer _____

Reason for transfer _____

Facility _____

Veterinarian (name and signature): _____

(22) Embryos in this consignment originate from a different country than the exporting country (*delete as appropriate and initial*).

- a) The country of origin is currently approved to export to New Zealand.
- b) A letter from the Competent Authority or a certified New Zealand export certificate indicating its compliance with New Zealand requirements accompanies the consignment.
- c) The embryos in this consignment has been verified as the same embryos originating from *<insert name of country of origin>*.
- d) Since its arrival the embryos have been stored in the facility stated in Part 1, under the supervision of the Competent Authority.

SPECIFIC REQUIREMENTS FOR IDENTIFIED RISK ORGANISMS:

(23) **Equine herpesvirus-1 (EHV-1)** [abortigenic and paralytic forms]

Donor animals

- a) Have been kept for the 21 days prior to collection in an establishment where no case of EHV-1 (abortigenic and paralytic forms) was reported during that period.
- b) Showed no clinical signs of EHV-1 infection on the day of collection and during the 21 days prior to collection.

(24) **Equine infectious anaemia (EIA)**

- a) Donors showed no clinical sign of EIA on the day of each collection; and
 - i) Donors were kept on premises where no case of EIA has been reported during the 90 days prior to each collection; and
 - ii) Donors were subjected to a test listed in the MPI document: *MPI Approved Diagnostic Tests, Vaccines, Treatments and Post-arrival Testing Laboratories for Animal Import Health Standards (MPI-STD-TVTL)*, either *
 - i) Not less than 30 days after entry into the collection centre; or
 - ii) 30-60 days after collection; or
 - iii) Annually at the start of the breeding season,

with negative results.

(**Delete as applicable*)

(25) **Equine viral arteritis (EVA)** (*delete as applicable*)

- a) Donors were
 - i) kept in an establishment where no animals have shown any signs of EVA for the 28 days prior to shipment; and
 - i) Were subjected to a test for EVA, as prescribed in MPI-STD-TVTL, carried out on blood samples collected either once within 21 days prior to collection with negative result, or on two occasions at least 14 days apart within 28 days prior to collection, which demonstrated stable or declining antibody titres; or
 - ii) Were regularly vaccinated according to the recommendations of the manufacturer.

Vaccine: _____

Date of vaccination: _____

Or

- ii) Donors were isolated for the 28 days prior to collection and during this period showed no sign of EVA.

(26) **Leptospirosis**

- a) Antibiotics were added to collection, processing, washing and storage media.

Name and concentration of antibiotics:

(27) **Taylorella spp. (Contagious equine metritis, CEM)** (*delete as applicable*)

- a) Donors were from a country or zone where no case of CEM has been reported by the Competent Authority of the exporting country;
or
b) Donors were from a country with an official control programme for CEM; and
- i) Showed no clinical sign of CEM on the day of each collection; and
 - ii) Have met the testing recommendations as described in MPI-STD-TVTL with negative results during the 30 days prior to the collection period¹; and
 - iii) Have been protected against any possibility of contagion since the beginning of the tests; and
 - iv) Donors have not been treated with antibiotics for at least 7 days before commencing the testing and throughout the sample collection period; or
- c) Donors were known to have been infected with CEM; and
- i) Have been treated for CEM; and
 - ii) After treatment, were subjected to an effective method of testing² listed in MPI-STD-TVTL; and
 - iii) Have been protected against any possibility of contagion since the beginning of the tests.

¹ Swabbing sites are the clitoral fossa and sinuses; two swabs are required 4-7 days apart.

² Swabbing sites are the clitoral fossa and sinuses; three swabs are required at weekly intervals.

Embryo Collection Veterinarian:

Name

Address:

Date:

Signature:

Official Veterinarian:

Name:

Address:

Date:

Signature:



This Table accompanies the veterinary certificate with reference number: _____

Female donor information									
Name	Donor identification	Breed	Date of Birth	Country of Birth	Name of Owner	Address of Owner			
Male donor information									
Name	Donor identification	Breed	Date of Birth	Country of Birth	Name of Semen Centre	Address of Semen Centre	Semen Centre Number		
Embryo information (Note that this information is to be amended as appropriate to the exporting country)									
Female donor identification	Date/s of collection	Identification of embryos	Number of embryos	Date of entry into place of embryo collection	Embryo team approval number	Date of last inspections			
Test information									
Female donor identification	Equine infectious anaemia virus			<i>Taylorella</i> spp. (contagious equine metritis, CEM)			Equine viral arteritis (EVA)		
	Test sampling date	Test type	Result	Test sampling date	Test type	Result	Test sampling date	Test type	Result

Appendix 1 – Document History

Date First Issued	Title	Shortcode
NCR	Semen and Embryos from Horses (<i>Equidae</i>)	HORSSEMB.SPE
Date of Issued Amendments	Title	Shortcode

Draft for Consultation