REFERENCE NUMBER:_____

VETERINARY HEALTH CERTIFICATE
EXPORT OF BOVINE SEMEN TO NEW ZEALAND

Part 1: Details of dispatched consignment

I.1 Consignor (Exporter): Name: Address:	I.2 Certificate reference number: I.3. Competent Authority: **CANADIAN FOOD INSPECTION AGENCY**
I.4. Consignee (Importer): Name: Address:	
I.5. Country of origin: **CANADA** ISO Code: **CA**	I.6 Zone or compartment of origin**
I.7. Country of destination: **NEW ZEALAND** ISO code: **NZ**	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 ☐ Aeroplane ☐ Ship Identification:	I.13. Expected border post: I.14. CITES permit No(s): N/A
I.15. Description of commodity: **FROZEN BOVINE SEMEN**	I.16. Commodity Code (HS Code): **0511 1010** I.17. Total number of straws:
I.18. Temperature of commodities for transport: -196 °C	I.19. Total number of packages:
I.20. Identification of container(s) and seal number: Container _____ Seal Number _____ _____ _____ _____ _____	I.21. Type of packaging:

**If referenced in Part 2

Part 2: Health requirements

I, the undersigned Official Veterinarian, certify that the product described above satisfy the following requirements:

(1) Eligibility

(a) Frozen semen from the Bovinae subfamily

(2) Diagnostic tests, vaccines and treatment

(a) All pre-export and/or surveillance testing required by this veterinary certificate has been:

(i) *conducted by a laboratory approved by the Competent Authority of the exporting country; or

(ii) *conducted by a laboratory approved by the Competent Authority of any other country approved to export bovine semen to New-Zealand.

(*) Delete as appropriate and initial)

(b) All laboratory samples required by this veterinary certificate have been collected, processed, and stored in accordance with the OIE's recommendations or as described in *Approved Diagnostic Tests, Vaccines, Treatments and Post-Arrival Testing Laboratories for Animal Import Health Standards*, MPI-STD-TVTL, found here: https://www.mpi.govt.nz/dmsdocument/2040/

(c) All diagnostic test(s) and vaccines that are required below are those that have been approved by MPI for that purpose and documented in MPI-STD-TVTL.

(d) All products and vaccinations required by this veterinary certificate to be administered to meet the specific disease requirements below have been administered according to the manufacturer's instruction.

(3) Semen collection centre requirements

(a) The semen for export was collected in a semen collection centre that complies with the recommendations for centres in the 2021 version of the OIE *Code* chapter *General Hygiene in Semen Collection and Processing Centres*.

(b) At the time of collection of this consignment for New Zealand, the semen collection centre was:

(i) approved for export by the Canadian Food Inspection Agency;

(ii) subjected to regular inspection, at least every 12 months, by an Official Veterinarian;

(iii) under the supervision of a semen collection centre veterinarian.

(c) Semen donors that were transferred from one approved semen collection centre to another approved centre of equal health status without isolation or testing and the following requirements were met:

(i) The donors were examined by the approved semen collection centre veterinarian on the day of entry into the centre and showed no evidence of infectious disease transmissible in semen.

(ii) Transfer was direct.

(iii) The donors did not come into direct or indirect contact with animals of lower health status.

(iv) The means of transport was disinfected before use.

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(4) Donor requirements

(a) The semen donors met the relevant recommendations of the 2021 version of the OIE *Code* chapter *Collection and Processing of Bovine, Small Ruminant, and Porcine Semen*, and the other specified requirements in this veterinary certificate.

(b) Prior to entering the semen collection centre, the semen donors were held in pre-entry isolation for a minimum period of 28 days. During this period, they were not used for natural mating and did not come in contact with animals with a lower health status.

(c) Semen donors that were imported to Canada have only lived in approved countries for at least the 60 days before semen collection.

(d) On the day of semen collection, the semen collection centre veterinarian or a trained employee supervised by the centre veterinarian determined that the donors were free from clinical evidence of infectious diseases transmissible in semen.

(e) Where a specific requirement of this veterinary certificate was met by pre-collection testing, the semen donors were isolated from other animals not of equivalent tested health status, from the time of the test sample collection until completion of semen collection for export.

(f) Where a specific requirement of this veterinary certificate for a risk organism was met by monitoring the semen donors for clinical signs for a specified time after collection, the semen was stored for that amount of time prior to export.

(5) Semen collection, processing and storage

(a) Semen collection, processing and storage complied with the sections relevant for bovine semen in chapter 4.7 of the 2021 version of the OIE *Code* unless stated otherwise in this veterinary certificate.

(b) Where testing must be within a certain time period before or after semen collection:

(i) Semen collection may be a time period of up to 60 consecutive days.

(ii) Test samples must have been collected within the specified period before the first day of the semen collection where testing is required before semen collection.

(iii) Test samples must have been collected within the specified period after the last day of the semen collection period where testing is required after semen collection.

(c) The cryogenic or cooling agent used in the freezing process, storage and transport is new and has not been used previously in association with any other product of animal origin.

(d) All straws have been sealed, and clearly and permanently marked to identify the donor and the date(s) of freezing. The markings conform to international standards of the International Committee for Animal Recording (ICAR). *If a code is used for this information, its decipher instructions must accompany the consignment.

(*Delete as appropriate and initial)

(e) The semen has only been stored and transported with germplasm that has been collected and processed in accordance with the recommendations of the 2021 OIE *Code*.

(f) The semen has been held in a storage place approved by the Competent Authority of the exporting country until the time of export.

(g) Subject to h, the semen will be imported directly from the country in which it was collected or transited through a country that has an agreed veterinary certificate for bovine semen export to New Zealand.

(h) *If the semen was collected in a country that has an agreed veterinary certificate for bovine semen export to New Zealand and stored in another country that also has an agreed veterinary certificate for bovine semen export to New Zealand (country of storage), that semen is accompanied by:

(i) A declaration from the Competent Authority of the country of storage that:

1. identifies the semen from the country of origin as the semen being exported to New Zealand;

2. certifies that the semen has been stored and transported in the country of storage in accordance with the requirements of veterinary certificate;

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(ii) Evidence that the semen meets the rest of the import requirements in the form of either:

1. *a veterinary certificate issued by the Competent Authority of the origin country; or

2. *a letter from the Competent Authority of the origin country confirming the semen meets the requirements of their agreed veterinary certificate and indicating which requirements therein have been fulfilled.

(*Delete as appropriate and initial)

(6) Transport

(a) The transport container in which the semen is to be transported to New Zealand is new or disinfected and is free of contamination. If the transport containers were disinfected, the disinfectant used must be listed below:

(i) Disinfectant (active chemical):_____

(ii) Date of disinfection:_____

(b) All transport containers in which semen is transported to New Zealand have been sealed, by the centre veterinarian or an Official Veterinarian, using tamper-evident seals that are positioned to ensure that no semen can be added after the transport container has been sealed.

Specified Requirements

(7) Bovine herpes virus 1.1 and 1.2a (Infectious Bovine Rhinotracheitis/Infectious Pustular Vulvovaginitis, IBR/IPV)*

(a) The semen collection centre was free from BHV 1.1 and 1.2a from commencement until conclusion of semen collection for export to New Zealand, through compliance with the recommendations in the 2021 version of the OIE *Code* in relation to BHV, with the following modifications:

(i) All cattle were tested prior to pre-entry isolation for antibodies using an ELISA or a SN/VN (as per the OIE methodology), with negative results;

(ii) All cattle were tested in pre-entry isolation for antibodies using an ELISA or a SN/VN (as per the OIE methodology), with negative results, or where an animal in a group has tested positive re-testing the remaining animals, with negative results, not less than 21 days after removal of the positive animal;

(iii) Thereafter, all cattle were re-tested annually for antibodies using an ELISA or a SN/VN (as per the OIE methodology), with negative results; or

(b) The semen donor was:

(i) held in isolation for the 30 days following collection;

(ii) tested for BHV 1.1 and 1.2a using an ELISA or a SN/VN (as per the OIE methodology) at least 21 days after semen collection for export to New Zealand, with negative results; or

(c) An aliquot of semen from each semen collection for export to New Zealand was tested for BHV 1.1 and 1.2a with a Real Time-PCR or a Virus Isolation (VI) test (as per the OIE methodology), with negative results.

(*Delete the unused option(s) and initial)

(8) Bovine herpes virus 5 (BHV 5)

(a) The semen donor's centres of residence have had no cases of BHV 5 (suspected or diagnosed) in the year prior to semen collection for export to New Zealand.

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(9) Bovine leukaemia virus (Enzootic Bovine Leukosis, EBL)*

(a) The semen donor was resident at the time of semen collection in a herd certified as free from EBL by the Competent Authority; and

(i) The semen donor is less than two years of age and is from a 'uterine dam' that has been subjected to serological test (ELISA); or

(ii) The semen donor originates from a herd certified as free by the Competent Authority; or

(iii) The donor animals have reached the age of 2 years and, have been subjected, with a negative result, to a serological test for EBL (ELISA); or

(b) The semen donor was subjected to an ELISA test for EBL on two occasions, with negative results, the first test was carried out at least 30 days before and the second test at least 90 days after collection of the semen; or

(c) An aliquot of semen from each collection for export to New Zealand was tested for BLV with a virus isolation or a PCR, with negative results.

(*Delete the unused option(s) and initial)

(10) Bovine viral diarrhoea virus genotype 2 (BVDV2)

(a) The semen collection centre was maintained free from BVDV2 from commencement until conclusion of semen collection for export to New Zealand, through compliance with the Canadian Artificial Insemination Program testing requirements in relation to BVDV2; or

(b) An aliquot of semen from each semen collection for export to New Zealand was tested for BVDV2 with a virus isolation test, with negative results.

(11) Foot and mouth disease (FMD)

(a) The donor was resident for at least the 3 months before the semen collection in a country or zone that was free from FMD without vaccination in accordance with the OIE *Code*.

(12) Lumpy skin disease (LSD)

(a) The semen donor was resident for 6 months prior to semen collection in a country or zone that was free of LSD as defined by the OIE *Code*.

(13) Rift Valley fever virus (RVF)

(a) The donor was resident, for at least the 30 days prior to, and during semen collection for export to New Zealand in a country or zone that was free from RVF in accordance with the OIE *Code*.

(14) *Brucella melitensis*, *Brucella abortus and Brucella suis*

(a) The semen collection centre was maintained free from *Brucella* from commencement until conclusion of semen collection for export to New Zealand, through compliance with the Canadian Artificial Insemination Program testing requirements in relation to *Brucella*.

(15) *Campylobacter fetus* subspecies *venerealis* (Cfv) (bovine genital campylobacteriosis, BGC)

(a) The collection centre has a programme, approved by the CFIA and aligned with the chapter on *Collection and Processing of Bovine, Small Ruminant and Porcine Semen* of the 2021 version of the OIE *Code*, to prevent Cfv infected animals from entering the collection herd; and

(b) The donor has had at least one culture or monoclonal antibody-based capture ELISA test of preputial specimens in the last 12 months with negative results.

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(16) *Coxiella burnetii* (Q-fever)

(a) The semen donor has never been confirmed positive for Q fever; and either

(i) The donor was subjected to a serological test (ELISA) for Q fever as described in MPI-STD-TVTL, on a sample collected between 21 and 120 days after each semen collection for export to New Zealand, with negative results; or

(ii) An aliquot of semen from each collection for export to New Zealand was tested for Q fever with a test listed in the MPI-STD-TVTL, with negative results; or

(iii) Within the 6 month period before or after semen collection for New Zealand, but before export, semen collection centre herd was tested for Q fever, using a test listed in MPI-STD-TVTL, with negative results. The Q fever test must be:

1. performed on either the whole herd or a random sample of at least 60 animals (whichever is the lesser number); and

2. the herd was isolated for the period between semen collection and diagnostic sampling.

(17) *Leptospira interrogans* serovar hardjoprajitno (leptospirosis)

(a) Antibiotics were added to semen as indicated below;

(i) 50 µg tylosin, 250 µg gentamicin, 150 µg lincomycin, 300 µg spectinomycin; or

(ii) 500 IU penicillin, 500 µg streptomycin, 150 µg lincomycin, 300 µg spectinomycin; or

(iii) 25 µg dibekacin, 75 µg amikacin; or

(b) The donor was:

(i) given a single injection of oxytetracycline (20 mg/kg of body weight IM) between 2 and 10 days prior to embryo collection for New Zealand; or

(ii) vaccinated as per the manufacturer's guidelines, and given two injections of oxytetracycline (20 mg/kg of body weight IM) 10 days apart anytime during the 60 days prior to collection for New Zealand.

(18) *Mycobacterium tuberculosis* (bovine tuberculosis)

(a) At the time of collection for New Zealand, the semen collection centre was:

(i) free from bovine tuberculosis in accordance with the Canadian Artificial Insemination Program;

(ii) located in a country or zone that was free from bovine tuberculosis.

(19) *Mycoplasma mycoides* subspecies *mycoides* SC (contagious bovine pleuropneumonia, CBPP)

(a) The semen donor was born in and had been continuously resident in a country free from CBPP.

(20) *Mycoplasma bovis*

(a) Collection and processing of semen was in accordance with the recommendations of the OIE Code, with the following modifications:

The raw/neat semen for export to New Zealand must have the following combinations added to it at the specified dose per mL of neat/raw semen:

(i) gentamicin (575 µg), tylosin 115 µg), lincomycin–spectinomycin (345/690 µg) (GTLS);

The antibiotics must be either:

(i) prepared and stored as separate stock solutions as described by the manufacturer to maintain potency; or
(ii) premixed and used as indicated by the manufacturer to maintain potency;

The semen and antibiotic solution must not be further diluted for at least 4 minutes;
The semen must remain at no less than 5°C for a minimum of 2 hours before being frozen in the antibiotic solution; or

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(b) A minimum of two extractions (straws) per batch of extended semen, using one of the extraction methods and PCR methods indicated in MPI-STD-TVTL, with negative results.

_____ Date (yyyy-mm-dd)

_____
Signature of Official Veterinarian
Canadian Food Inspection Agency

_____
Name of Official Veterinarian (in block letters)

Address: _____

_____

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Table I: Semen Information (date format is yyyy-mm-dd)

Donor Identification	Date(s) of Collection (yyyy-mm-dd)	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

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Table II: Test Information (date format is yyyy-mm-dd.)

Donor Identification	Collection Date	Bovine herpes virus 1.1. and 1.2a (IBR/IPV)			Bovine leukaemia (EBL)			Bovine genital campylobacteriosis (BCG)			*Coxiella burnetii* (Q Fever)			*Mycoplasma bovis*		
		Sampling date	Test type	Result	Sampling date	Test type	Result	Sampling date	Test type	Result	Sampling date	Test type	Result	Sampling date	Test type	Result

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