


No. 109-23/2016- Trade  
Government of India  
Ministry of Agriculture and Farmers Welfare  
Department of Animal Husbandry, Dairying and Fisheries

Krishi Bhawan, New Delhi  
Dated 7<sup>th</sup> April, 2016

Subject: Sampling and diseases testing protocol of in-vivo Bovine embryos – reg.

The undersigned is directed to refer to clause (2) of Section-III – “Post Import Requirements” in the Gazette notification S. O. 2656(E) dated 23rd September, 2015 relating to Standard Operating Procedure (SOP) for sampling and disease testing protocol of in-vivo Bovine embryos for Bovine Viral Diarrhoea (BVD). The samples will be drawn for BVD testing which will be done at National Institute of High Security Animal Diseases, Bhopal (NIHSAD) and the final decision to release the consignment by the quarantine officer will be taken after receiving the testing reports. The SOP for sampling and disease testing of in-vivo Bovine embryos for BVD is enclosed for information and necessary compliance.

2. This issues with the approval of the competent authority.

  
(Dr. Sanjeet Kumar)  
Assistant Commissioner

Distribution:

1. Regional Officer, Animal Quarantine and Certification Service, Sector - 1, Koper Khairane, New Mumbai – 400709
2. Regional Officer, Animal Quarantine and Certification Service, Old Delhi Gurgaon Road, Kapasnera, New Delhi – 110037
3. Regional Officer, Animal Quarantine and Certification Service, Village & Post - Narayanpur, Via - Rojarat Gopalpur, District - 24 Pargana (North), Kolkata
4. Quarantine Officer (IC), Animal Quarantine and Certification Service, No. 115, Valechery Main Road, Village - Palikarani, Chennai –600100
5. Quarantine Officer, Animal Quarantine and Certification Service, Bangalore International Airport, Bangalore – 560300.
6. Quarantine Officer, Animal Quarantine and Certification Service, Cargo Satellite Building, Block - A, Mezannine Floor, Rajiv Gandhi International Airport, Shamshabad - 501218, Hyderabad.

Copy to:  
PS to JS (LH) / Director (Trade)

**Sampling and Disease testing protocol in reference to clause (2) of  
Section III – “Post Import Requirements” in the Gazette  
notification dated 28<sup>th</sup> September, 2015**

The present procedure describes the sampling and disease testing protocol for the imported *in vivo* derived bovine embryos.

The imported embryos shall be quarantined at the Quarantine Station of the Animal Quarantine and Certification Services (AQCS) at the port of entry. The samples will be drawn for Bovine Viral Diarrhoea (BVD) testing which will be done at ICAR- National Institute of High Security Animal Diseases, Bhopal (NIHSAD), Bhopal and the final decision to release the consignment by the quarantine officer will be taken after receiving the disease testing reports.

As per IETS and OIE, after the trypsin treatment during the process of embryo production the risk of transmission of Bovine Brucellosis and Infectious Bovine Rhinotracheitis (IBR) is negligible. Hence, no testing is required for Brucellosis and IBR.

**1. Sample**

1.1 Either of the following will serve as sample for disease testing:

1. Flushing fluid
2. Unfertilized oocytes
3. Degenerated embryos
4. Viable embryos

1.2 Two (2) samples of any of the material at 1 to 3 per donor need to be provided by the exporter for disease testing. However, in case of viable embryo, one (1) embryo per donor shall be utilized for testing.

1.3 The samples for disease testing shall be packed in red colour 0.25 ml straws and packed in separate canisters and goblets ~~than embryos~~ with proper identification. This will help in easy identification of the samples.

**2. Testing Protocol**

2.1 The Regional Officer, AQCS will arrange sending of the samples to ICAR-NIHSAD, Bhopal for testing of Bovine Viral Diarrhoea (BVD) at the cost of importer.

2.2 The sample drawn will be subjected to test for BVD using real-time RT-PCR for each donor and all positive donors will be identified.

2.3 ICAR-NIHSAD, Bhopal shall communicate the results to the Regional Officer, AQCS with a copy to the importer as soon as the testing is completed and results are available.

2.4 The consignment will be kept safely under custody of Regional Officer, AQCS till the disease testing results are made available by ICAR, NIHSAD.

2.5 It would be responsibility of the importer to replenish the Liquid Nitrogen in the container with embryos at regular interval as suitable during the period of quarantine at AQCS.

### **3. Releasing/ discarding of the imported Embryos:**

3.1 If any of the donors is found positive for BVD, then all the embryos from that particular donor in the consignment should be destroyed by autoclaving by the Regional Quarantine Officer, AQCS immediately after receiving the test results from ICAR-NISHAD.

3.2 The imported embryos from BVD negative donors should be released immediately after receiving the test results from ICAR-NISHAD.

3.3 The Regional Officer, AQCS shall submit a report regarding BVD testing, test results and discard of embryos to DADF for each consignment of imported embryo.