

World Organisation for Animal Health

International standards on Brucellosis

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WOAH, Paris

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World
Organisation
for Animal
Health
Founded in 1924

Organisation
mondiale
de la santé
animale
Fondée en 1924

Organización
Mundial
de Sanidad
Animal
Fundada en 1924





What we do

- **A standard setting organisation**
- **The WOAH develops and publishes standards related to its mandate:**
 - **Codes – Standards for improvement of animal health, animal welfare and veterinary public health, ensure safe trade**
 - **Manuals – Standards for diagnostic tests and vaccines**



WOAHA as a standard setting organisation

Using the Terrestrial Code

Defines standards for disease control, surveillance, diagnostics, and safe international trade.

Divided into sections based on disease type, control measures, and risk analysis.

Use for setting regulations, veterinary services, and ensuring compliance in animal health programs.



Using the Manual of Diagnostic Tests and Vaccines for Terrestrial Animals

Part 1: General standards for veterinary labs and vaccine facilities.

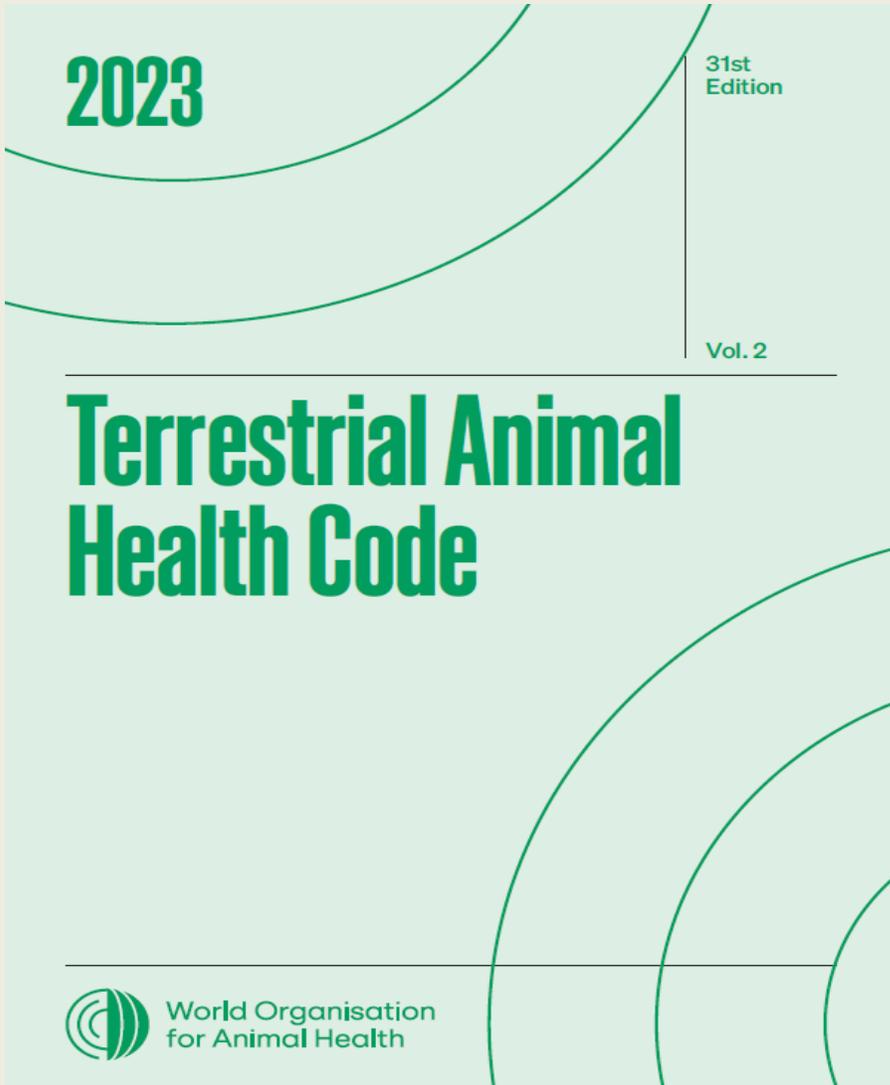
Part 2: Specific recommendations on diagnostics and vaccines.

Part 3: Disease-specific standards, including diagnostic tests, vaccines, and control measures.

Each chapter includes summaries, diagnostic methods, and recommended tests.



WOAHA as a standard setting organisation



Terrestrial Code

Chapter 8.4 Infection with *Brucella abortus*, *B. melitensis* and *B. suis*

(Case definition, Brucella status, Zoning and compartmentalisation, Importation)

Chapter 3.8.7. for Ovine epididymitis (*Brucella ovis*)

Free flock, importation of animal and semen



Case definition & Notification to WAHIS

Brucella strains

- *Brucella abortus, B. melitensis, B. suis., B. ovis*
- *excluding vaccine strains

Susceptible animals

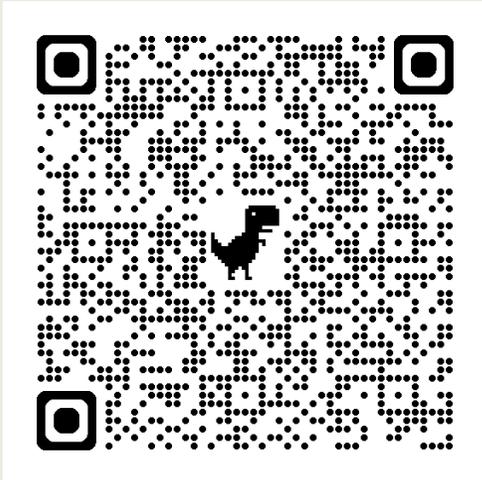
- Both Domestic and captive wild animals
- Bovids: Cattle, Bison And Water Buffalo,
- Sheep and Goats,
- Pigs, Camelids, Cervids, European hare
- Only sheep for B.ovis

Diagnostic criteria

- Clinical + non clinical animals
- Brucella has been isolated from a sample from an animal
- Positive results to a diagnostic test have been obtained, with epidemiological link to a case

Chapter 8.4.

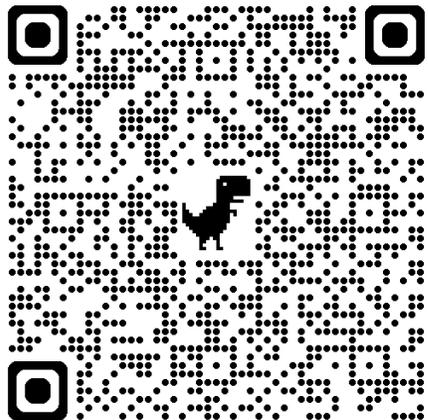
Types of Articles for Country, Zone and Herd freedom



Article	Country / Zone or Flock freedom
8.4.1.	General provisions
8.4.2.	Safe commodities
8.4.3 to 8.4.9	Country or zone freedom in different species
8.4.10. and 8.4.11	Herd or flock freedom in bovids, sheep and goats, camelids or cervids with / without vaccination
8.4.12	Herd free from infection with Brucella in pigs
8.4.13.	Recovery of the Brucella infection free status in a country or a zone 

Chapter 8.4.

Types of Articles related to Trade



Article

Recommendations for the importation

8.4.14.

Animals for breeding or rearing

8.4.14.

Pigs for breeding or rearing

8.4.16.

Animals for slaughter

8.4.17.

Semen

8.4.18.

Embryos

8.4.19.

Fresh meat and meat products other than mentioned in article 8.4.2.

8.4.20.

Milk and milk products

8.4.21.

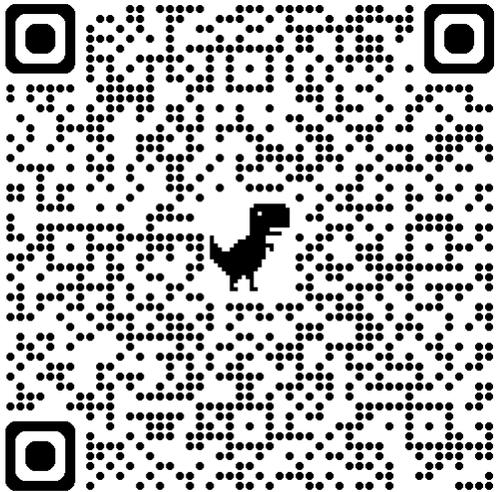
Wool and hair



Chapter 14.6. **Ovine epididymitis (*Brucella ovis*)**

Types of Articles related to Trade

Article	Recommendations for the importation
Article 14.6.1.	General Provisions refers to the Manual
Article 14.6.2.	Sheep flock free from ovine epididymitis
Article 14.6.3.	Recommendations for the Importation of Sheep for Breeding or Rearing (except castrated males)
Article 14.6.4.	Recommendations for the Importation of Semen of Sheep

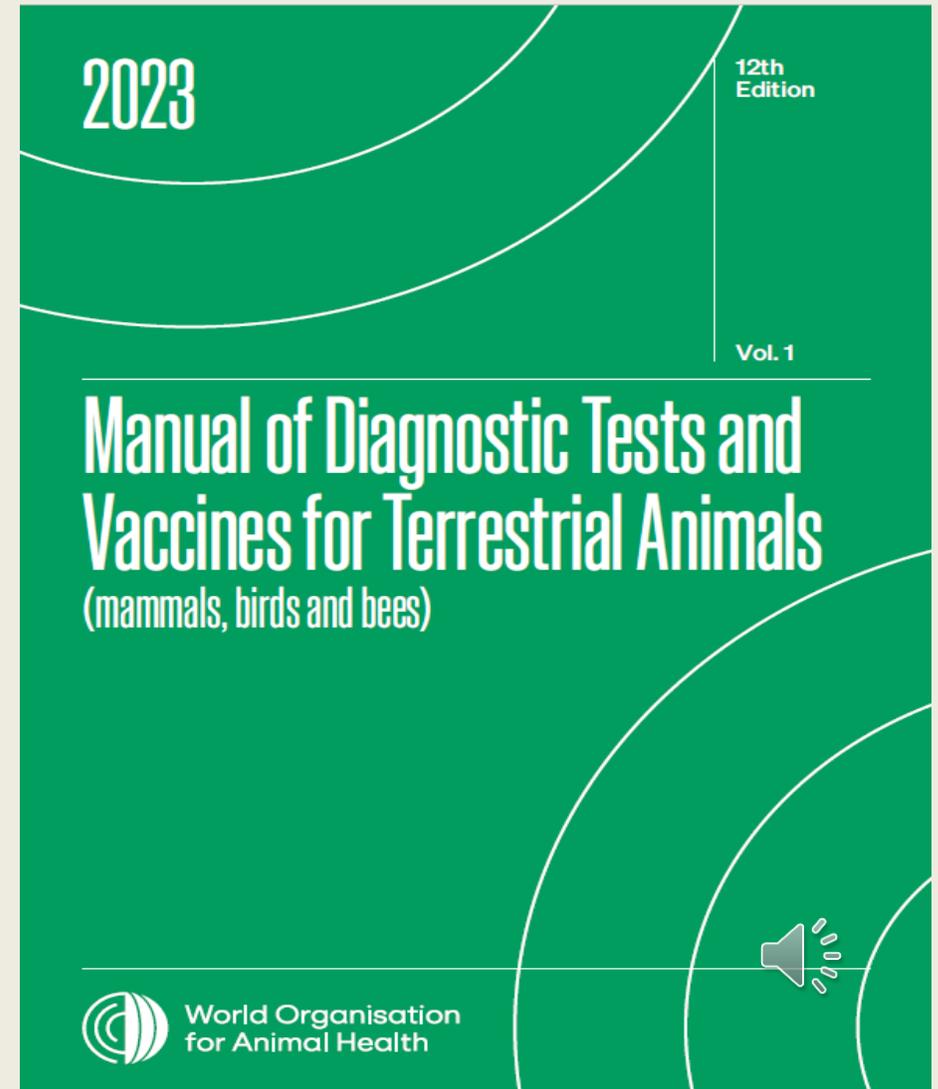
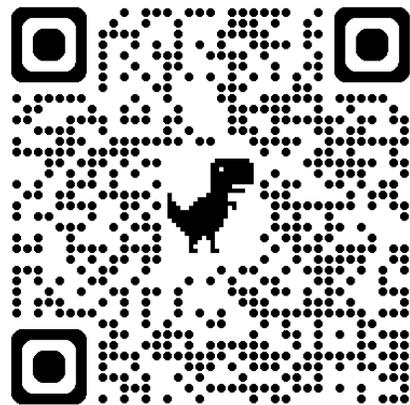
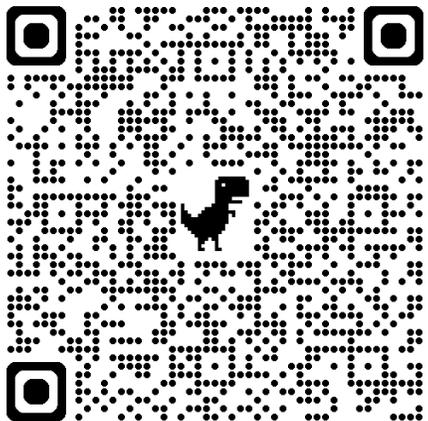


WOAHA as a standard setting organisation

Manual of Diagnostic Tests and Vaccines for Terrestrial Animals

Chapter 3.1.4. Brucellosis (infection with *Brucella abortus*, *B. melitensis* and *B. suis*)

Chapter 3.8.7. Ovine epididymitis (*Brucella ovis*)





Terrestrial Manual

Chapter 3.1.4. BRUCELLOSIS (*Brucella abortus*, *B. melitensis* and *B. suis*)



Description of the disease

- Epidemiology, Susceptible Species, clinical infection



Detection of the agent

- Screening of herds and confirmatory tests
- Serological and cellular immunity tests



Requirements for vaccines and diagnostic biologicals



Chapter 3.8.7. Ovine epididymitis (*B. ovis*)



Updates in Chapter 3.1.4.



1. Introduction
2. Description of the disease
3. Infection in other species (*B. melitensis* and *B. abortus* may also **infect camels** *B. canis* was also added as one of the species (in addition to *B. abortus*, *B. melitensis* and *B. suis*)
4. Diagnostic techniques (Collection of sample, Detection of the agent, Serological tests, tests for cellular immunity)
5. Vaccines (new section on vaccination in other species)





Reference Lab Network to Support Our Members

**Brucellosis (*Brucella canis*,
1 Laboratory)**

Prof Ulrich Wernery UNITED ARAB EMIRATES

**Brucellosis (*Brucella abortus*,
11 Laboratories)**

Dr Adrian Whatmore UNITED KINGDOM

Prof Ulrich Wernery UNITED ARAB EMIRATES

Dr Jin-Ju Lee KOREA (Rep of)

Dr Mahmoud Hamdy EGYPT

Dr Claire Ponsart FRANCE

Dr Monaya Ekgatat THAILAND

Prof Liangquan Zhu PEOPLE'S REP OF CHINA

Dr Heinrich Neubauer GERMANY

Dr Svetlana Berdenstein ISRAEL

Dr Fabrizio De Massis ITALY

To be decided ARGENTINA





Reference Lab Network to Support Our Members

Please contact the WOAHA Reference Laboratories for any further information on diagnostic tests, reagents and vaccines for *Brucella*

Brucellosis (*Brucella melitensis*), 10 Laboratories)

Dr Adrian Whatmore UNITED KINGDOM

Prof Ulrich Wernery UNITED ARAB EMIRATES

Dr Mahmoud Hamdy EGYPT

Dr Claire Ponsart FRANCE

Dr Monaya Ekgat THAILAND

Prof Liangquan Zhu PEOPLE'S REP OF CHINA

Dr Heinrich Neubauer GERMANY

Dr Svetlana Berdenstein ISRAEL

Dr Fabrizio De Massis ITALY

To be decided ARGENTINA



WOAHA - A standard setting organisation

Key takeaway

- Brucellosis chapter in Terrestrial Code: **Chapter 8.4.** (last updated 2018)
- Brucellosis chapter in Terrestrial Manual: **Chapter 3.1.4.** (last updated 2022)
- **Separate Chapter for Brucella ovis, Chapter 3.8.7. and Chapter 3.1.4. for Ovine epididymitis (Brucella ovis) (last updated 2015)**





For more information

Reference laboratories & collaboration networks, Terrestrial manual

- bsc.secretariat@woah.org

Terrestrial code

- tcc.secretariat@woah.org





Thank you!

