

WOAH Reference Laboratory Reports Activities 2025

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LABORATORY INFORMATION

| | |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| *Name of disease (or topic) for which you are a designated WOA Reference Laboratory: | Brucellosis (Brucella abortus, Brucella canis, Brucella melitensis) |
| *Address of laboratory: | P.O. Box 597 Dubai |
| *Tel: | +971-4 337.51.65 |
| *E-mail address: | cvrl@cvrl.ae |
| Website: | www.cvrl.ae |
| *Name (including Title) of Head of Laboratory (Responsible Official): | Priv. Doz. Dr. Dr. habil. Ulrich Wernery |
| *Name (including Title and Position) of WOA Reference Expert: | Priv. Doz. Dr. Dr. habil. Ulrich Wernery, Scientific Director |
| *Which of the following defines your laboratory? Check all that apply: | Semi Governmental |

TOR1: DIAGNOSTIC METHODS

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)

Yes

| Diagnostic Test | Indicated in WOA Manual (Yes/No) | Total number of test performed last year | |
|----------------------------------|----------------------------------|------------------------------------------|-----------------|
| | | Nationally | Internationally |
| Indirect diagnostic tests | | | |
| B. canis RSAT | Yes | 204 | 45 |
| B. canis IFAT | Yes | 40 | 16 |
| Brucella RBT | Yes | 1721 | 31 |
| Brucella CFT | Yes | 515 | 0 |
| Brucella ELISA | Yes | 121 | 0 |
| Brucella SAT | Yes | 165 | 0 |
| Brucella Milk ring Test | Yes | 541 | 0 |
| Direct diagnostic tests | | | |
| Brucella culture | Yes | 12 | 0 |
| Brucella PCR | Yes | 4 | 0 |

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOA?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA Members?

Yes

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| Type of reagent available | Related diagnostic test | Produced/ provide | Amount supplied nationally (ml, mg) | Amount supplied internationally (ml, mg) | No. of recipient WOA Member Countries | Country of recipients |
|---------------------------|-------------------------|-------------------|-------------------------------------|------------------------------------------|---------------------------------------|-----------------------|
| Brucella positive serum | RBT/SAT/ELISA | provided | 0 | 2.5 ML | 1 | UNITED KINGDOM, |

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA Members?

TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOA Standards for the designated pathogen or disease?

No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

9. Did your laboratory validate vaccines according to WOA Standards for the designated pathogen or disease?

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOA Members?

Yes

| Name of WOA Member Country seeking assistance | Date | Which diagnostic test used | No. samples received for provision of diagnostic support | No. samples received for provision of confirmatory diagnoses |
|-----------------------------------------------|------------|----------------------------|----------------------------------------------------------|--------------------------------------------------------------|
| CAYMAN (ISLANDS) | 2025-01-01 | B. canis RSAT | 3 | 0 |
| CONGO (DEM. REP. OF THE) | 2025-01-01 | B. canis RSAT | 1 | 0 |
| BRAZIL | 2025-01-01 | B. canis RSAT | 4 | 0 |
| SAUDI ARABIA | 2025-01-01 | B. canis RBT | 3 | 0 |
| BANGLADESH | 2025-01-01 | B. canis RSAT | 1 | 0 |
| ETHIOPIA | 2025-01-01 | B. canis RSAT | 1 | 0 |
| GHANA | 2025-01-01 | B. canis RSAT | 1 | 0 |
| KENYA | 2025-01-01 | B. canis RSAT | 1 | 0 |
| MAURITIUS | 2025-01-01 | B. canis RSAT | 10 | 0 |
| OMAN | 2025-01-01 | B. canis RSAT | 3 | 0 |
| PHILIPPINES | 2025-01-01 | B. canis RSAT | 1 | 0 |
| SEYCHELLES | 2025-01-01 | B. canis RSAT | 4 | 0 |
| SOUTH AFRICA | 2025-01-01 | B. canis RSAT | 9 | 0 |
| SRI LANKA | 2025-01-01 | B. canis RSAT | 1 | 0 |
| THAILAND | 2025-01-01 | B. canis RSAT | 1 | 0 |
| TUNISIA | 2025-01-01 | B. canis RSAT | 1 | 0 |
| TURKEY | 2025-01-01 | B. canis RSAT | 1 | 0 |

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOA Member?

Yes

| Name of the WOA Member Country receiving a technical consultancy | Purpose | How the advice was provided |
|------------------------------------------------------------------|---------------------------------------|-----------------------------|
| SAUDI ARABIA | support in interpreting Brucella test | email |
| BRAZIL | Brucella FPA testing | email |
| INDIA | Sending samples for Brucella testing | email |
| NEW ZEALAND | Brucella canis sera for validation | email |

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOA Members other than the own?

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Yes

| Title of the study | Duration | Purpose of the study | Partners (Institutions) | WOAH Member Countries involved other than your country |
|------------------------------------------------|-----------|---------------------------------------------------------|-------------------------|--------------------------------------------------------|
| Establishment of Brucella camel reference sera | 2-3 years | Brucella camel reference sera production and validation | Anses, France | FRANCE |

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOA?H?

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

No

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:

All data generated at CVRL are shared with UAE ministerial authorities and with the authorities of the countries that submitted the samples.

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

0

b) International conferences:

1

18th Conference of the Regional Commission for the Middle East, which will take place from 24 to 28 November 2025 in Larnaca, Cyprus.

c) National conferences:

0

d) Other (Provide website address or link to appropriate information):

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOA?H Members?

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

| Quality management system adopted | Certificate scan (PDF, JPG, PNG format) | |
|-----------------------------------|-----------------------------------------|----------------------------------------------------------|
| ISO/IEC 17025:2017 | CVRL, PDF | CVRL-IAS.pdf |
| ISO/IEC 17025:2017 | CVRL, PDF | CentralVeterinaryResearchLaboratoryL.L.C.LB-TEST-208.pdf |

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| | | |
|--------------------|---------------|-------------|
| ISO/IEC 17025:2017 | MBG, Vet, PDF | MBG-Vet.pdf |
| ISO/IEC 15189 | MBG, Vet, PDF | |

19. Is your quality management system accredited?

Yes

| Test for which your laboratory is accredited | Accreditation body |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Brucella Culture | IAS, USA |
| CEM- Culture for Taylorella equigenitalis | IAS, USA |
| Brucellosis ELISA | IAS, USA |
| Brucellosis CFT | IAS, USA |
| Brucellosis RBT | IAS, USA |
| Brucellosis SAT | IAS, USA |
| Dourine CFT | IAS, USA |
| Glanders CFT | IAS, USA |
| West Nile IgM ELISA | IAS, USA |
| Strangles ELISA | IAS, USA |
| Theileria equi ELISA | IAS, USA |
| Babesia caballi ELISA | IAS, USA |
| AHS cELISA | IAS, USA |
| Equine infectious Anemia AGID | IAS, USA |
| Virus Neutralisation Test for Equine Viral Arteritis (EVA - VNT) | IAS, USA |
| Influenza A Virus Isolation | IAS, USA |
| Avian paramyxovirus type 1 (APMV-1) / Newcastle Disease Virus (NDV) Isolation | IAS, USA |
| Indirect Fluorescent Antibody Test (IFAT) for the detection of antibodies to Equine Piroplasmosis (Theileria equi and Babesia caballi) | IAS, USA |
| MERS-Coronavirus (MERS-CoV) Isolation | IAS, USA |
| Fluorescent Antibody Virus Neutralization (FAVN) Test for Rabies | IAS, USA |

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

Yes

CVRL regularly monitors its laboratory facilities, management practices, and biosecurity procedures to ensure biosafety and laboratory biosecurity.

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAHP?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAHP?

No

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAHP Reference Laboratories designated for the same pathogen or disease?

Yes

24. Are you a member of a network of WOAHP Reference Laboratories designated for the same pathogen?

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP Reference Laboratories designated for the same pathogen during the past 2 years?

No

CVRL, in collaboration with ANSES, France, is organizing an inter-laboratory proficiency testing exercise to validate camel sera using RBT, SAT, CFT, and ELISA, involving ten different laboratories.

26. Did your laboratory collaborate with other WOAHP Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

Yes

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| Title of the project or contract | Scope | Name(s) of relevant WOA Reference Laboratories |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Brucellosis camel standard serum preparation | Scope of the project is to validate positive and negative camel sera which are necessary to standardize diagnostic tests and reagents for Brucellosis. the serum will be validated for RBT, CFT, ELISA and SAT | Anses, France |

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOA Reference Laboratories for the same pathogen during the past 2 years?

No

CVRL, in collaboration with ANSES, France, is organizing an inter-laboratory proficiency testing exercise to validate camel sera using RBT, SAT, CFT, and ELISA, involving ten different laboratories.

TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOA?

No

29. Additional comments regarding your report:

No