

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 18 décembre 2024 13:00

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Rabies
*Address of laboratory:	Onderstepoort Veterinary Institute, 100 Old Soutpan Road, Onderstepoort 0110, Pretoria, Republic of South Africa.
*Tel:	+27-12 529 94 39
*E-mail address:	claudesabeta@up.ac.za
Website:	www.arc.agric.za
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr Munangatire Mparamoto
*Name (including Title and Position) of WOAH Reference Expert:	Prof Claude Sabeta
*Which of the following defines your laboratory? Check all that apply:	Governmental Research agency

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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Monoclonal antibody typing	Yes	29	0
Direct diagnostic tests		Nationally	Internationally
Direct fluorescent antibody test	Yes	626	28
Fluorescent antibody virus neutralisation test (FAVNT)	Yes	2684	278

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?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA Members?

No

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?

No

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

No

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
NAMIBIA	2024-08-31	Direct fluorescent antibody test	0	27
ZAMBIA	2024-09-30	Direct fluorescent antibody test	1	0

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

No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

No

TOR6: EPIZOOLOGICAL DATA

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

Yes

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

All data of brain samples analysed are submitted to the national department of agriculture (DALRRD) monthly

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:

Shared with the National Rabies Advisory Group and the Department of Agriculture.

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:

1

Ngoepe, C.E.; Shumba, W. and Sabeta, C. (2024). Evidence for a host-switch in the maintenance of canid rabies variant in the Northern Cape Province, South Africa. *Journal of the South African Veterinary Association*; 94:123-129. <https://doi.org/10.36303/JSAVA.527>.

b) International conferences:

4

1.Oral presentation on "Phylogenetic analyses of recent dog rabies viruses from an outbreak in the Eastern Cape Province, South Africa" - 6th Virology Africa Conference (VAC-2024) held from 15- 18 April 2024 in Cape Town.

2.Oral presentation on "Black-backed jackal-associated rabies case in white rhino from North-West Province, South Africa at SASVEPM held from 21-23 in Cape Town.

An online presentation on Rabies diagnosis in seals in South Africa was made on the 6th of November 2024 during RITA congress 2024 .

Oral presentation on Phylogenetic analyses of recent dog rabies viruses from outbreaks in the Eastern Cape Province, South Africa at ISVEE held from 11-15 November 2024 in Sydney, Australia.

c) National conferences:

1

Poster presentation on "Phylogenetic analyses of recent dog rabies viruses from an outbreak in the Eastern Cape Province, South Africa during South African Association of Veterinary Technologist(SAAVT) Congress 2024 held on 9- 10 October 2024, Muldersdrift ,Johannesburg.

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

1

www.up.ac.za

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 1

d) Internships (>1 month) 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
C	MALAWI	2

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
1s017025	pdf	V0003-07-2024.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
FAT	SANAS
FAVNT	SANAS

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

Yes

1.Biannual Rabies Titer Checks 2.Vaccinations for new staff 3.Access control to the laboratory 4.Use of correct PPE 5.Working in BSC class II 6.Enough separate rooms for different functions/tests Make use of standard controlled SOPs

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. Do you network (collaborate or share information) with other WOAHP Reference Laboratories designated for the same pathogen?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS
Through the RABLAB network	Member of the network	15	All other WOAHP Rabies Reference Laboratories

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

Did not organise or participate in inter-laboratory

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?

No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

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

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAHP Member Countries
1) Determining a laboratory's capability to conduct specific diagnostic test ii) Checking or certifying the performance of individual operators.	Participant/Organiser	3	Direct fluorescent antibody test	SOUTH AFRICA,

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Ad hoc group	Virtual	Evaluation of official control programmes for dog-mediated rabies for endorsement.

29. Additional comments regarding your report:

Yes

Reference laboratory has been operating consistently to previous years.