

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 4 février 2025 08:08

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Sheep pox and goat pox
*Address of laboratory:	No. 100 Old Soutpan Road, Onderstepoort, 0110, Gauteng Province, South Africa
*Tel:	+27-12 529 9338
*E-mail address:	lubisia@arc.agric.za
Website:	https://www.arc.agric.za/
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Baratang Alison Lubisi - Acting Senior Manager Research: Animal Health and Protection
*Name (including Title and Position) of WOA Reference Expert:	Dr. Baratang Alison Lubisi - Research Team Manager: Diagnostic Services
*Which of the following defines your laboratory? Check all that apply:	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)

No
The laboratory has not received samples for testing for disease diagnosis, screening or surveillance.

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?

Not applicable

5. Did your laboratory supply vaccines to WOAHA Members?

Not applicable

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 WOAHA 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 WOAHA Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

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?

No

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:

b) International conferences:

c) National conferences:

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

The laboratory has not received samples for testing. However, following validation of all tests implemented, the results will be presented at a national or international conference, and published in a peer reviewed journal.

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOA 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)	
ISO17025	The institution and laboratories follow the ISO 17025 quality management system	V0001-06-2022 signed.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISAs, HAIs, AGID, and PCRs	SANAS

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

Yes

The institution has a biorisk officer and follows international standard, ISO 35001 for biorisk management.

TOR9: SCIENTIFIC MEETINGS

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

No

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

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
Sheep and goat pox	Requested reference materials	2	Pirbright; The Razi Vaccine and Serum Research Institute

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

The laboratory is in the process of implementing and validating internationally recognised serological and molecular based diagnostic methods, following which it will participate in proficiency and/or interlaboratory comparison tests.

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?

No

The laboratory is in the process of implementing and validating internationally recognised serological and molecular based methods. Following successful implementation, it will participate in proficiency test schemes.

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Review of a chapter in the Manual of Diagnostic Tests and Vaccines for Terrestrial Animals	On-line	Reviewed the Sheep and Goat Pox chapter in the WOAHP Manual of Diagnostic Tests and Vaccines for Terrestrial Animals

29. Additional comments regarding your report:

1. *Laboratory capacity*

The laboratory has capacity to perform virus isolation, PCR and neutralisation tests, and genome sequencing. Commercial Capripox ELISA kits were purchased. These are intended for use for routine serological testing following validation.

South Africa does not have Sheep and Goat Pox (SGP) and there are no field positive samples at the laboratory's disposal. A call has been

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made to various veterinary authorities in Africa and abroad for sharing of samples.

2. Collaborative projects

The laboratory has also entered into a twinning project with the Tanzania Veterinary Laboratory Agency for this disease, since Tanzania is reported to have infection and disease. It is envisaged that through this collaboration, strides can be made in validating methods, and receiving samples for diagnosis, surveillance, and other purposes. It should however be mentioned that our Tanzanian counterparts warned that SGP is not regularly reported by farmers, and they hardly see clinical cases or receive diagnostic samples, despite knowing that the disease exists in the country.

3. Contribution to literature

A research paper titled: "Evaluation and optimization of Loop-Mediated Isothermal Amplification (LAMP) technique in capripoxvirus diagnosis and its comparison with PCR method" was reviewed for the journal, Archives of Razi