

# WOAH Reference Laboratory Reports Activities 2022

## Activities in 2022

This report has been submitted : 25 avril 2023 15:07

### Laboratory Information

<b>Name of disease (or topic) for which you are a designated WOA Reference Laboratory:</b>	Bluetongue Virus
<b>Address of laboratory:</b>	5 Portarlington Road East Geelong Victoria 3219 Australia
<b>Tel.:</b>	+61 352275000
<b>E-mail address:</b>	debbie.eagles@csiro.au
<b>Website:</b>	<a href="https://www.csiro.au/en/about/facilities-collections/acdp">https://www.csiro.au/en/about/facilities-collections/acdp</a>
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Trevor Drew - Director Australian Animal Health Laboratory
<b>Name (including Title and Position) of WOA Reference Expert:</b>	Debbie Eagles - Deputy Director of Australian Animal Health Laboratory
<b>Which of the following defines your laboratory? Check all that apply:</b>	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 WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
ELISA	Yes	155	16
SNT - Serum Neutralisation Test	Yes	94	0

Direct diagnostic tests		Nationally	Internationally
Realtime PCR	Yes	276	11
Isolation	Yes	19	3
Sequencing	Yes	Seg 10 - 47 All others - 407	0

## TOR2: REFERENCE MATERIAL

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

No

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

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOA?H MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
BTV Virus protein antigen	ELISA	Produced	1ml	0	1	Asia and Pacific
BTV Network Quality Control	PCR	Produced	10ml		2	Asia and Pacific
BTV Network Quality Control	ELISA	Produced	6ml	1ml	4	Asia and Pacific
BTV Virus	PCR	Produced	0	1ml	1	Asia and Pacific

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA?H 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?H 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?H Standards for the designated pathogen or disease?

No

## TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

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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
SOLOMON (ISLANDS)	2022-10-03	ELISA SNT	16 (Surveillance)	Nil (Surveillance)

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

## **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:

Diagnostic testing and epidemiological data from national sentinel herd surveillance (as conducted under the National Arbovirus Monitoring Program). Diagnostic testing includes serology, virus isolation and typing, sequencing and bioinformatics.

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:

Reports on sentinel herd surveillance are shared with member of the National Arbovirus Monitoring Program; collated into an Annual Report (see 16d) and included as relevant in publications (16a).

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):

National Arbovirus Monitoring Program Annual Report,  
<https://animalhealthaustralia.com.au/industry-publications/>

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit :

b) Seminars :

c) Hands-on training courses: 55

d) Internships (>1 month)

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 - Regional Proficiency Testing Provider Training, 21-25 February 2022 (Virtual)	China, Vietnam, Thailand, Malaysia, South Korea, Japan, Indonesia, India	14
c - Refresher Proficiency Test Workshop, Yogyakarta, Indonesia, 26-27 July 2022	Indonesia	16
c - Validation and Verification Workshop, Yogyakarta, Indonesia, 12-16 September 2022	Indonesia	22
c - Pathology and Histology Training, Geelong, Australia, 24 October -4 November 2022	Indonesia	2
c - Sequencing and Bioinformatics Training, Geelong, Australia, 24 October -4 November 2022	Indonesia	1

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO17025	.pdf	NATA ISO 17025 SEP 2022.pdf
ISO9001	.pdf	BSI ISO 9001 NOV 2022.pdf
ISO14001	.pdf	BSI ISO 14001 NOV 2022.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
BTV Isolation	ISO17025
BTV PCR	ISO17025

BTV SNT	ISO17025
BTV Taqman	ISO17025
BTV VNT	ISO17025
BTV CELISA	ISO17025
BTV Antigen ELISA	ISO17025

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

Yes

The laboratory has a dedicated Biorisk Management Team (14 Members) who provide specialist advice, monitor and improve Biosafety, Biosecurity and Biocontainment activities and perform maintenance on Biocontainment systems. The team uses a risk analysis approach to management of biological risks for biosafety and biosecurity to inform and determine the policy and procedures that in turn give confidence that the laboratory procedures for each of the biological materials handled by the laboratory pose negligible danger to Australia's animal and human populations. 261 Policies and procedures are contained in the annually reviewed ACDP Biorisk Manual consisting of various sections as follows. Section 1 Administration Section 2 PC2 Procedures and Policies Section 3 PC3 Procedures and Policies Section 4 PC4 Procedures and Policies Section 5 Large Animal Facility (LAF) Procedures and Policies Section 6 Personnel and Procedural Controls Section 7 Transport and Storage of Biological Material Section 8 Movement of Material, Equipment and Waste Section 9 Engineering Procedures and Policies Section 10 Microbiological Incident Response Procedures and Policies Section 11 Laboratory Services Group Section 12 Containment Services Group The successful ACDP biological risk management system has clear and unequivocal commitment by laboratory management, who ensure that roles, responsibilities, resources and authorities related to biological risk management are defined, documented, and communicated to those who manage, perform, and verify work associated with biological agents and toxins in the laboratory. The Biorisk Management Team are audited over 3 days every 6 months by an external security assessment team to provide an independent review of elements affecting ACDP's microbiological and physical security operations and to advise CSIRO senior executive management of any areas of concern or risk. The laboratory is aspiring to become accredited to ISO 35001:2019 Biorisk management for laboratories and other related organisations.

## **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 WOA REFERENCE LABORATORIES**

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

Yes

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

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOA Reference Laboratories designated for the same pathogen?

No

26. Did your laboratory collaborate with other WOA 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 WOA Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOA Member Countries
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Molecular detection of BTV by Australian & New Zealand laboratories as part of the Laboratories Emergency Animal Disease Diagnosis and Response (LEADDR) Network

Organiser

8

Asia and Pacific

## TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)
BTV Reference Laboratory Review of WOA Template	Virtual	The BTV Reference Laboratories coordinated a response to WOA on "Development of a template for the validation data for addition of a test to a future online list of tests validated to the OIE Standard"

29. Additional comments regarding your report:

No