

# WOAH Reference Laboratory Reports Activities 2022

## Activities in 2022

This report has been submitted : 13 février 2023 23:50

### Laboratory Information

|                                                                                            |                                                                                                                        |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Name of disease (or topic) for which you are a designated WOA Reference Laboratory:</b> | Vesicular stomatitis                                                                                                   |
| <b>Address of laboratory:</b>                                                              | National Veterinary Services Laboratories USDA, APHIS, Veterinary Services 1920 Dayton Ave Ames, IA 50010              |
| <b>Tel.:</b>                                                                               | 15153377551                                                                                                            |
| <b>E-mail address:</b>                                                                     | nvsl.dvl.heads@usda.gov                                                                                                |
| <b>Website:</b>                                                                            | www.aphis.usda.gov/nvsl                                                                                                |
| <b>Name (including Title) of Head of Laboratory (Responsible Official):</b>                | Dr. Suelee Robbe-Austerman, Director, National Veterinary Services Laboratories                                        |
| <b>Name (including Title and Position) of WOA Reference Expert:</b>                        | Dr. Rachel Tell, Veterinary Medical Officer, Diagnostic Virology Laboratory, National Veterinary Services Laboratories |
| <b>Which of the following defines your laboratory? Check all that apply:</b>               | 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 |                 |
|--------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|-----------------|
| Indirect diagnostic tests                                                                  |                                  | Nationally                               | Internationally |
| Competitive enzyme-linked immunosorbent assay (cELISA; Indiana-1 and New Jersey serotypes) | yes                              | 1,246                                    | 178             |

|                                                           |     |            |                 |
|-----------------------------------------------------------|-----|------------|-----------------|
| Complement fixation (Indiana-1 and New Jersey serotypes)  | yes | 440        | 10              |
| Virus Neutralization (Indiana-1 and New Jersey serotypes) | yes | 1,388      | 252             |
| Direct diagnostic tests                                   |     | Nationally | Internationally |
| Virus isolation                                           | yes | 85         | 0               |
| Real-time RT-PCR                                          | yes | 298        | 0               |
| Sequencing                                                | no  | 0          | 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       |
|---------------------------|-------------------------|-------------------|-------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------|
| Antigen                   | CF                      | provided          | 10                                  | 0                                        | 0                                       |                             |
| Reference Virus           | VN                      | provided          | 1                                   | 0                                        | 0                                       |                             |
| Recombinant antigen       | cELISA                  | provided          | 0                                   | 3                                        | 1                                       | Asia and Pacific            |
| Polyclonal ascites        | cELISA                  | provided          | 0                                   | 0                                        | 0                                       |                             |
| Complement                | CF                      | provided          | 12                                  | 0                                        | 0                                       |                             |
| CF Test Panel             | CF                      | provided          | 50                                  | 0                                        | 0                                       |                             |
| cELISA Test Panel         | cELISA                  | provided          | 0                                   | 0                                        | 0                                       |                             |
| PCR Test Panel            | PCR                     | both              | 45                                  | 0                                        | 0                                       |                             |
| Antiserum                 | several                 | provided          | 144                                 | 20                                       | 1                                       | America<br>Asia and Pacific |

4. Did your laboratory produce vaccines?

Not applicable

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

No

## **TOR4: DIAGNOSTIC TESTING FACILITIES**

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

No

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

No

## **TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

12. Did your laboratory participate in international scientific studies in collaboration with WOAHS 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:

"USDA Vesicular Stomatitis: NVSL works with another unit within USDA for distribution of analyzed data.

<https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/animal-disease-information/cattle-disease-information/vesicular-stomatitis-info>"

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:

"USDA Vesicular Stomatitis: NVSL works with another unit within USDA for distribution of analyzed data.

<https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/animal-disease-information/cattle-disease-information/vesicular-stomatitis-info>"

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:

October 2022: United States Animal Health Association and American Association of Veterinary Laboratory Diagnosticians Annual Meeting

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

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAHA 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) |                                             |
|----------------------------------------------------------|-----------------------------------------|---------------------------------------------|
| American Association for Laboratory Accreditation (A2LA) |                                         | NVSL A2LA ISO 17025 accreditation scope.pdf |

19. Is your quality management system accredited?

Yes

| Test for which your laboratory is accredited           | Accreditation body                                       |
|--------------------------------------------------------|----------------------------------------------------------|
| Virus Neutralization                                   | American Association for Laboratory Accreditation (A2LA) |
| Complement Fixation                                    | American Association for Laboratory Accreditation (A2LA) |
| Competitive Enzyme-Linked Immunosorbent Assay (cELISA) | American Association for Laboratory Accreditation (A2LA) |
| Virus Isolation                                        | American Association for Laboratory Accreditation (A2LA) |

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

Yes

Biosafety, Security and Incident Response Plan and Biological Risk Assessments: NVSL-MAN-0018 and NVSL-WI-1207

## TOR9: SCIENTIFIC MEETINGS

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

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?

No

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 |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|
| Administered by NVSL and required to conduct official testing in the U.S.; shipped internationally by request | Administered by NVSL and required to conduct official testing in the U.S. |                                | America                                         |

## TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

*Less testing conducted this year than in some others due to there being no outbreak of vesicular stomatitis in the United States during 2022.*