

# OIE Reference Laboratory Reports Activities

## *Activities in 2021*

**This report has been submitted : 2022-01-11 00:11:28**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Japanese encephalitis
<b>Address of laboratory:</b>	177 Hyeoksin 8-ro Gimcheong-si Gyeongsangbuk-do 39660 KOREA (REP. OF)
<b>Tel.:</b>	+82 54 912 0785
<b>Fax:</b>	+82 54 912 0812
<b>E-mail address:</b>	yangdk@korea.kr
<b>Website:</b>	
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	BongKyun Park (Commissioner of Animal and Plant Quarantine Agency: APQA)
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Dong-Kun Yang (Senior scientist of Animal and Plant Quarantine Agency: APQA)
<b>Which of the following defines your laboratory? Check all that apply:</b>	Governmental

**ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards**

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
Virus neutralization test	Yes	1312	0
Direct diagnostic tests		Nationally	Internationally
RT-PCR	Yes	80	0

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.  
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Negative serum samples	HI	proved	0	3 tubes/box	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

***ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases***

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

***ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries***

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
MYANMAR	To collect sero-surveillance data in domestic pigs	with E-mail
INDONESIA	to prevent JEV infection in Bali	with E-mail
CHINA (PEOPLE'S REP. OF)	to support serological test	with E-mail

***ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations***

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

***ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases***

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:
To control Japanese encephalitis, the seroprevalence of horses was investigated every year in South Korea. In 2021, we conducted VN test on 1312 horse sera collected from 16 cities. Considered that most domestic horse housed for racing were regularly immunized with JEV vaccine, the overall positive rate (90.1%, 1182 of 1312) was likely to be affected by vaccination.

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

If the answer is no, please provide a brief explanation of the situation:
The epizootiological data have been accumulated for 5 years and will be published this year.

**13. What method of dissemination of information is most often used by your laboratory?  
(Indicate in the appropriate box the number by category)**

a) Articles published in peer-reviewed journals: 0

b) International conferences: 0

c) National conferences: 2

Antiviral effects of a 27 mer peptide on virus possessing a lipid envelop in vitro.

Comparison of antibody level against JEV between methods using horse sera.

d) Other:

(Provide website address or link to appropriate information) 0

**ToR 7: To provide scientific and technical training for personnel from OIE Member Countries**

**To recommend the prescribed and alternative tests or vaccines as OIE Standards**

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

Yes

a) Technical visits: 0

b) Seminars: 1

c) Hands-on training courses: 0

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
b	Malaysia	9
b	Viet Nam	9
b	Kazakhstan	5
b	Philippines	3
b	Sri Lanka	1
b	Indonesia	8

**ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned**

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
KOLAS ISO/IEC 17025	20201020 KOLAS □□□□.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
VN test	KOLAS
HI test	KOLAS

17. Does your laboratory maintain a “bio-risk management system” for the pathogen and the disease concerned?

Yes

(See *Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4*)

### **ToR 9: To organise and participate in scientific meetings on behalf of the OIE**

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

### **ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results**

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

Not applicable (Only OIE Reference Lab. designated for disease)

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Not applicable (Only OIE Reference Lab. designated for disease)

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

Yes

Title of the project or contract	Scope	Name(s) of relevant OIE Reference Laboratories
The 3rd OIE regional meeting for OIE reference center in Asia and the Pacific	OIE reference center in Asia and the Pacific	OIE reference lab for CSFV, Brucellosis, NDV etc

***ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results***

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

No

Note: See *Interlaboratory test comparisons in: Laboratory Proficiency Testing* at: <http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

***ToR 12: To place expert consultants at the disposal of the OIE***

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report:

In 2021, it was difficult to visit and invite personnel from OIE member countries due to pandemic situation of COVID19. We actually planned to visit National center for veterinary diagnostic (NCVD), department of Animal Health in Viet Nam. But the plan was inevitably cancelled because COVID19 situation did not allow to carry out the plan.

In addition, when it comes to JEV vaccine, 5 biologic companies in South Korea have been produced JEV vaccine and provided it to farmers.