

# OIE Reference Laboratory Reports Activities

## *Activities in 2019*

**This report has been submitted : 2020-01-09 19:51:05**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Leptospirosis
<b>Address of laboratory:</b>	Avenida Talcahuano N° 1660 (1640) Martínez, Pcia de Buenos Aires ARGENTINA Las Cabañas y Repetto S/N Hurlingham, Buenos Aires Argentina
<b>Tel.:</b>	+54-11 48.746734
<b>Fax:</b>	+54-11 48746735
<b>E-mail address:</b>	jpetrako@senasa.gob.ar
<b>Website:</b>	www.inta.gob.ar www.senasa.gob.ar
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Ruth Heinz Ana Maria Nicola
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Jessica Petrakovsky, Lic. en Ciencias Biologicas, MsC en Salud Pública Luis Samartino, Med Vet, Ms S Ph D Investigador Referente
<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
MAT (Prueba de Microaglutinacion)	SI	1520	22
ELISA	NO	346	
Direct diagnostic tests		Nationally	Internationally
Aislamientos	SI	21	
PCR	SI	316	

**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
Suero control positivo	MAT	suero	624 ml	72	4	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Cepas de distintos serovares de Leptospira sp	MAT	cepas	70 ml	20 ml	3	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input 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
COLOMBIA	Asesoramiento en brotes de leptospirosis en ganado bovino y diagnostico de la enfermedad.	Presencial en reuniones tecnicas
MEXICO	Asesoramiento en brotes de leptospirosis en ganado bovino	Presencial, reuniones tecnicas y seminarios en el pais.
ARGENTINA	Asesoramiento en brotes de leptospirosis en ganado bovino, porcino y equino	Presencial, reuniones tecnicas, seminarios, conferencias, telefonicas, visita a fincas infectadas etc.
PARAGUAY	Asesoramiento en brotes de leptospirosis en ganado bovino y en el diagnostico serológico de la enfermedad	presencial y via electronica
URUGUAY	Asesoramiento en el diagnostico molecular de la enfermedad	Via electronica
ECUADOR	Asesoramiento en el diagnóstico serológico de la enfermedad	Via electrónica
BRAZIL	Mantenimiento de cepario	Via electronica

***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?

No

If the answer is no, please provide a brief explanation of the situation:

Se colectan datos epizootiologicos permanente en ganado bovino y porcino preferentemente pero corresponden solamente a la Republica Argentina. Se colectan datos epizootiologicos permanente en ganado bovino, porcino, equinos y fauna silvestre preferentemente pero corresponden solamente a la Republica Argentina

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

Yes

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

Se procesan habitualmente muestras de todas las especies, se analizan, se envían los resultados a los veterinarios demandantes y luego se realizan informes técnicos

**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: 1

Scialfa E; Videla Y; Grune Loffler, S; Quintana S ; Aguirre P; Brihuega B.. "Biofilm formation by Aquaspirillum spp. and saprophytic Leptospira spp. isolated from environmental source of Argentine". Journal of Microbiology, Biotechnology and Food Sciences, (2019).

b) International conferences: 1

Martinez, ML; Samartino, LE; Rodriguez, MA; Saraullo, VR; Romero, G; Hamer, M; Watanabe, O; Grune, S; Irazu, LE; Brihuega, BF (2019). Enzyme-Linked Immunosorbent Assay (ELISA): Extractive vs. Recombinant Protein in the Diagnosis of Bovine Leptospirosis. Simposio Internacional de la Asociación Mundial de Veterinarios de Laboratorios de Diagnósticos (ISWAVLD). 19-22 jun.2019. Chiang Mai, Tailandia.

c) National conferences: 1

-GRUNE LOFFLER S., PERIAGO M.V., WATANABE O., SARAULLO V., ALDAMA E., CEJAS R.G., CRUZ D., DELGADO C., GOIZUETA C., HAMER M., MARTÍNEZ M., BRIHUEGA B. Detección de leptospirosis patógenas en muestras ambientales de regiones geográficas habitadas por poblaciones vulnerables: estudio preliminar. XIX Simposio internacional sobre enfermedades desatendidas, Mundo Sano. Agosto 2019.

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: 3

b) Seminars: 2

c) Hands-on training courses: 1

d) Internships (&gt;1 month): 1

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
a) visita a fincas infectadas de leptospirosis, reuniones tecnicas con veterinarios locales	Argentina, Mexico	7 y 10 respectivamente
1) Seminario de capacitacion	Argentina	25 y 36 respectivamente
c) Curso de diagnostico de leptospirosis	Argentina, Uruguay, Bolivia	10
d) Diagnostico de laboratorio (incluye mantenimiento de cepario)	Argentina	3

**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)
ISO/IEC 17025:2005	INTA Acreditacion 17025 lepto.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Auditoria interna y externa	Organismo Argentino de Acreditacion

17. Does your laboratory maintain a "biorisk 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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
19 World Association of Veterinary Laboratory Diagnosticians (ISWAVLD)	06/19	Chiang mai, Thailand	Poster	Enzyme-Linked Immunosorbent Assay (ELISA): Extractive vs. Recombinant Protein in the Diagnosis of Bovine Leptospirosis.

**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?

Yes

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?

No

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?

No

**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:

Se realizaron controles de calidad a cada serie de vacuna que se comercializa en Argentina o bien se exporta y su destinatario solicita el control.

Durante el 2019 se controlaron 126 series, correspondientes a 17.738.127 dosis y fueron decomisadas por no cumplir satisfactoriamente 9 series (223.45 dosis)

Estos controles incluyen: esterilidad, inocuidad, eficacia, inactivación y pH.

Los mencionados controles se realizan de acuerdo a la normativa internacional vigente.

Se realizan asesoramientos presenciales, de laboratorio y virtuales para establecer medidas de control de brotes de leptospirosis animal