

# OIE Reference Laboratory Reports Activities

## *Activities in 2021*

**This report has been submitted : 2022-01-15 10:48:28**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Brucellosis (Brucella abortus, B. melitensis, B. suis)
<b>Address of laboratory:</b>	Talcahuano 1660 Código Postal 1640 Martinez Buenos Aires ARGENTINA
<b>Tel.:</b>	+541148746731(Ext.26)
<b>Fax:</b>	
<b>E-mail address:</b>	anicola@senasa.gob.ar
<b>Website:</b>	www.senasa.gob.ar
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Ana María Nicola, M.V., MSc., Directora General de Laboratorios y Control Técnico, SENASA - Luis Samartino, MV, McS, Ph D Referente zoonosis bacterianas. Ruth Heinz Directora del Centro de Ciencias Veterinarias y Agronómicas (INTA)
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Ana María Nicola, M.V., MSc., Directora General de Laboratorios y Control Técnico, Servicio Nacional de Sanidad y Calidad Agroalimentaria - SENASA -
<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
BBAT	Si	9754	693
ELISA (cELISA/iELISA)	Si	213	
FPA	Si	526	
CFT	Si	127	
SAT	Si	52	
Direct diagnostic tests		Nationally	Internationally
Cultivo bacteriológico	Si	14	
PCR	Si	58	

**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?

Yes

NOTE: Currently, there are 22 laboratories that produce Standard Reference Reagents officially recognised by the OIE for 19 diseases/pathogens. Please click the following link to the list of OIE-approved International Standard Sera:

<http://www.oie.int/en/our-scientific-expertise/veterinary-products/reference-reagents/>. If the reagent is not listed on this page, it is NOT considered OIE-approved. The next two questions allow you to indicate non-OIE-approved diagnostic reagents.

Supply imported OIE-approved SRR – Select where you import from list:

Disease	Test	Available from
Brucella abortus	Complement fixation; Agglutination; Buffered Brucella antigen tests; Fluorescence polarisation assay; Indirect and Competitive enzyme-linked immunosorbent assay	Dr Adrian Whatmore (as above)
Bovine brucellosis	Indirect and Competitive enzyme-linked immunosorbent assay; Complement fixation; Agglutination; Buffered Brucella antigen tests; Fluorescence polarisation assay	Dr Adrian Whatmore Animal and Plant Health Agency, Weybridge, New Haw, Addlestone, Surrey KT15 3NB, United Kingdom Tel: (44-1932) 35.76.10 Fax: (44-1932) 35.72.16 adrian.whatmore@apha.gov.uk
Ovine and caprine brucellosis (anti-Brucella melitensis [ISaBmS])	Indirect and Competitive enzyme-linked immunosorbent assay; Fluorescence polarisation assay; Buffered Brucella antigen tests	Dr Adrian Whatmore (as above)

Type of reagent available	Related diagnostic test	Produced/ Supply imported	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	Name of recipient OIE Member Countries
(OIEISS International anti-Brucella abortus Serum	CFT, RBT, SAT, MRT, FPA	Importado	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	ARGENTINA
OIE ELISA Standard Sera strong positive (OIEELISASPSS)	ELISA	Importado	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	ARGENTINA
OIE ELISA Standard Sera weak positive (OIEELISAWPSS)	ELISA	Importado	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	ARGENTINA
OIE ELISA Standard Sera negative (OIEELISANSS)	ELISA	Importado	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	ARGENTINA
International Standard for antiBrucella melitensis Serum ISaBmS	RBT, CFT, ELISA, FPA	Importado	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	ARGENTINA

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 estándar nacional (secundario) positivo, B. abortus	BBAT, CFT. ELISA, SAT, FPA	Producido	10 ml	5 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
Suero estándar nacional Negativo, B. abortus	BBAT, CFT. ELISA, SAT, FPA	Producido	10 ml	5 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
Antígeno BPAT	BBAT	Producido	1000 ml	30 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
Antígeno RBT	RBT	Producido	800 ml	30 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
Antígeno MRT	MRT	Suministrado	100 ml	20 ml	2	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Antígeno SAT	SAT	Producido	600 ml	20 ml	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

Antígeno RSAT	RSAT	Producido	150 ml	10 ml	2	<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?

Yes

Name of OIE Member Country seeking assistance	Date (month)	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
PARAGUAY	Mayo	0	17
URUGUAY	Diciembre		7

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
PARAGUAY	Interpretación diagnóstica. Utilización de vacunas	a distancia
QATAR	Herramientas diagnósticas. Actualización e interpretación. Control de calidad de vacunas	presencial
COLOMBIA	Herramientas diagnósticas. Actualización e interpretación	a distancia
MEXICO	Herramientas diagnósticas. Actualización e interpretación	a distancia
URUGUAY	Herramientas diagnósticas. Actualización e interpretación	a distancia
ECUADOR	Herramientas diagnósticas. Actualización e interpretación	a distancia
BRAZIL	Herramientas diagnósticas. Actualización e interpretación	a distancia

***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:
693 Análisis de importación y exportación.

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:
Pruebas de vigilancia epidemiológica en remates ferias y frigoríficos, Certificación de Establecimientos libres. La información es enviada al Programa de control y erradicación de la Brucelosis.

**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: 3

Adrién Rüegger et al.; Chronic prostatitis in a dog infected with a smooth strain of Brucella spp. Braz J Vet Pathol, 2021, 14(1), 61 - 65

DOI: 10.24070/bjvp.1983-0246.v14i1p61-65

Arregui MA, Brihuega BF, Samartino LE Diagnóstico de brucelosis en Zaedyus pichiy mediante técnicas serológicas convencionales" a I Congreso Virtual de Microbiología Veterinaria. Julio 2021. Argentina.

Arregui MA, Superina M, Samartino LE. Comparación de técnicas serológicas convencionales para la detección de anticuerpos anti-brucella en Zaedyus pichiy XXIII Reunión Científica y Técnica. Asociación Argentina de Veterinarios de Laboratorios de Diagnóstico. Argentina Noviembre 2021

b) International conferences: 2

Jornadas de Brucelosis, su control. Torreón, México, Mayo 2021

Jornadas de Brucelosis y Tuberculosis Diagnóstico de Situación Perspectivas en Países del Mercosur Agosto 2021

c) National conferences: 1

REUNION CIENTIFICO TECNICA AAVLD (Asociación Argentina de Veterinarios de Laboratorios de Diagnóstico) 17 AL 19 DE NOVIEMBRE DEL 2021

d) Other:

(Provide website address or link to appropriate information) 1

[www.senasa.gob.ar](http://www.senasa.gob.ar)

**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: 1

b) Seminars: 6

c) Hands-on training courses: 5

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
a	Qatar	4
c	Argentina	14
b webinars	Argentina, Paraguay, Uruguay, Ecuador, colombia, México	100

**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)
Norma ISO/IEC 17025	Certificado_de_acreditación OAA 2021.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
BPAT	OAA (Organismo Argentino de acreditación)
RBT	OAA (Organismo Argentino de acreditación)
SAT/2ME	OAA (Organismo Argentino de acreditación)
FPA	OAA (Organismo Argentino de acreditación)
ELISA	OAA (Organismo Argentino de acreditación)

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?

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?

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?

Yes

Purpose of the proficiency tests: <sup>1</sup>	Role of your Reference Laboratory (organiser/participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
Acreditación, competencia de Laboratorios oficiales de los SV diagnóstica BBAT, CFT, ELISA, FPA, SAT	participación	8	ANSES - FRANCIA

<sup>1</sup> validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

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
Revisión del Capitulo de Brucelosis del Manual Terrestre	Actualización Manual Terrestre	Todos los Laboratorios de Referencia de la OIE para Brucelosis

**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?

Yes

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

Purpose for inter-laboratory test comparisons <sup>1</sup>	No. participating laboratories	Region(s) of participating OIE Member Countries
Organización de interlaboratorios para Red de Laboratorios de diagnóstico de Brucelosis en Argentina para demostrar competencia técnica	68	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

**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?

Yes

Kind of consultancy	Location	Subject (facultative)
Reunión de la Comisión de Estándares Biológicos de la OIE	Paris-OIE-zoom meeting	Miembro de la comisión de Estándares Biológicos de la OIE
Reunión del Grupo ad hoc sobre Laboratorios Sustentables	Paris-OIE-zoom meeting	Experto PVS
Misión OIE PVS Sustainable Laboratory	Liberia - virtual mission	PVS Sustainable Laboratory Mission

25. Additional comments regarding your report:

Control de calidad de vacunas  
 Brucella abortus S 19: 195 lotes (8.233.333 dosis)  
 Brucella melitensis Rev 1: 8 series (1000 dosis)  
 Control de calidad antígenos y kits diagnósticos: 12 series (402.594 determinaciones)

Debido a la pandemia por COVID-19 las actividades de capacitación presencial se han visto disminuidas

