

MEASURES IMPLEMENTED BY THE NETWORK OF ANIMAL HEALTH LABORATORIES FOR THE DETECTION OF THE AFRICAN SWINE FEVER (ASF) INDEX CASE AND MONITORING OF THE DISEASE. SUMMARY OF RESULTS

NRL for AFRICAN SWINE FEVER in SPAIN

22/12/2025

ASF OFFICIAL LABORATORY NETWORK IN SPAIN

OFFICIAL LABS.

Only ELISA 12 ★

Only PCR 3 ★

ELISA + PCR 14 ★

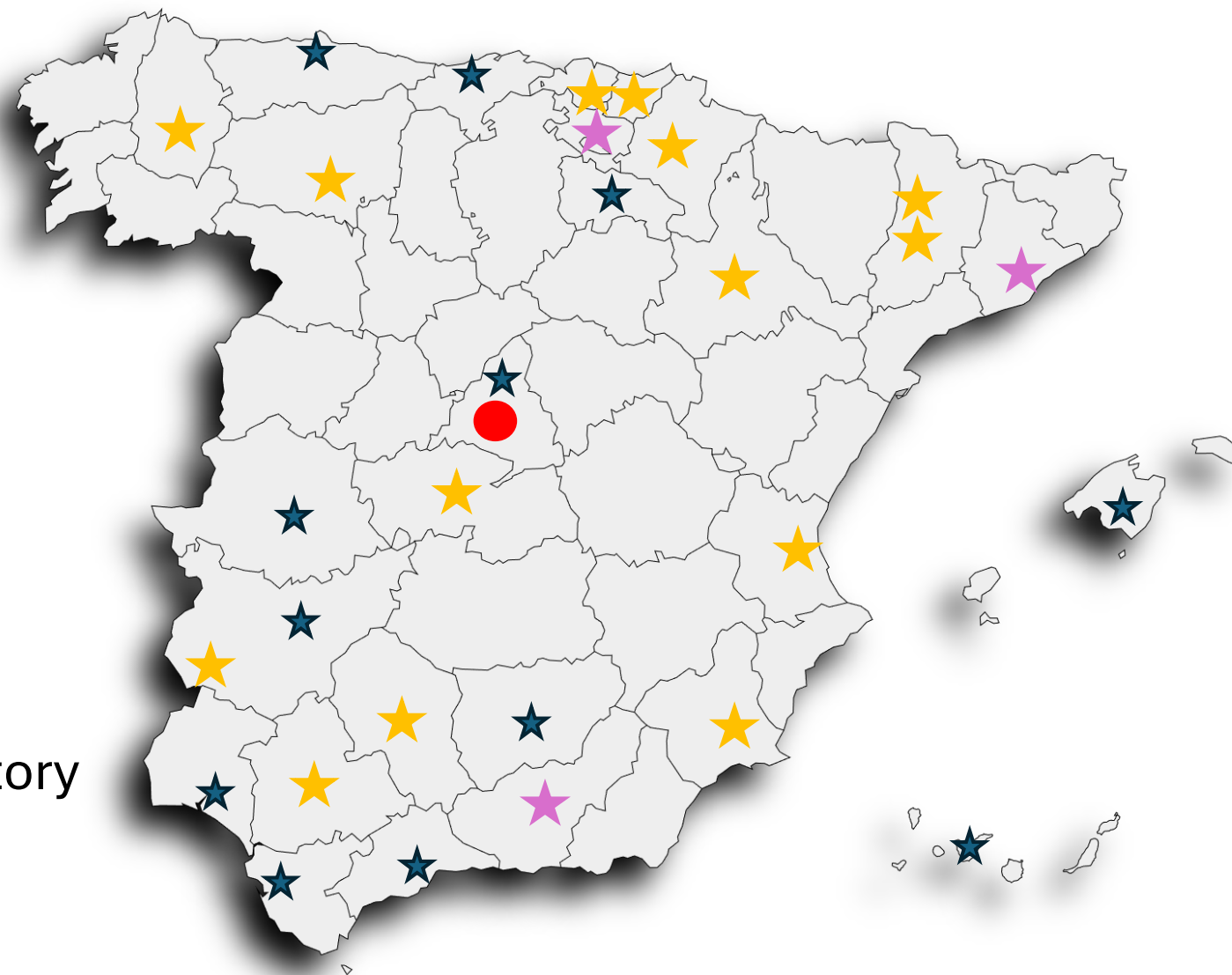
ELISA accredited 19

PCR accredited 6

LNR ●

Laboratorio Central de
Veterinaria

Both screening and confirmatory
methods all accredited



ASF OFFICIAL LABORATORY NETWORK IN SPAIN

SURVEILLANCE PROGRAMME IN SPAIN

PROGRAMA VIGILANCIA PESTE PORCINA AFRICANA REFORZADO



Vigilancia Pasiva

Detección de signos compatibles en cerdos y jabalíes



Enfermedad hemorrágica: hemorragias generalizadas en piel, tejidos conectivos, serosas, cavidades y órganos internos; ganglios linfáticos aumentados de tamaño y hemorrágicos; bazo aumentado de tamaño y congestivo; riñón congestivo con hemorragias corticales

Vigilancia activa

Explotaciones: seleccionadas en base al riesgo (70.800 sueros / año)

Mataderos: animales de 900 explotaciones / 26.100 animales / año

Partidas de animales de otros países: 100% de partidas de países de riesgo

Jabalíes: 1497 sueros recogidos de los jabalíes cazados / año

Control condiciones de L&D de camiones

Control documental y físico
100% de camiones provenientes de países de riesgo
Camiones de porcino y de bovino

ACTIVE

SURVEILLANCE: Domestic pigs (serology)
Wild boards - hunted (serology)
Samples from imported animal (serology & PCR)
Slaughterhouse (PCR in case of lesions)

PASIVE

SURVEILLANCE: Wild boards (serology & PCR)
Domestic pigs (serology & PCR)

DIAGNOSTIC ACTIVITIES IN LNR

(index case; outbreaks 1 & 2)



November 26th (evening): Notice that we will be receiving samples that have tested PCR positive in the official laboratory (IRTA-CreSa)

November 27th (18:30): two **EDTA blood samples** received in the NRL
(21:30): PCR results on EDTA blood samples (confirmed as **POSITIVE**)

November 28th (09:00): PCR results report is issued
(15:00): Partial sequencing Gen B646L (p72), Gen E183L (p54) and Gen B602L (CVR). Characterized as **GENOTYPE II**
(morning): primary monocyte culture preparation



One SNP in the sequenced region of **p54** compared to all ASFV Genotype II strains available in Genbank

DIAGNOSTIC ACTIVITIES IN LNR

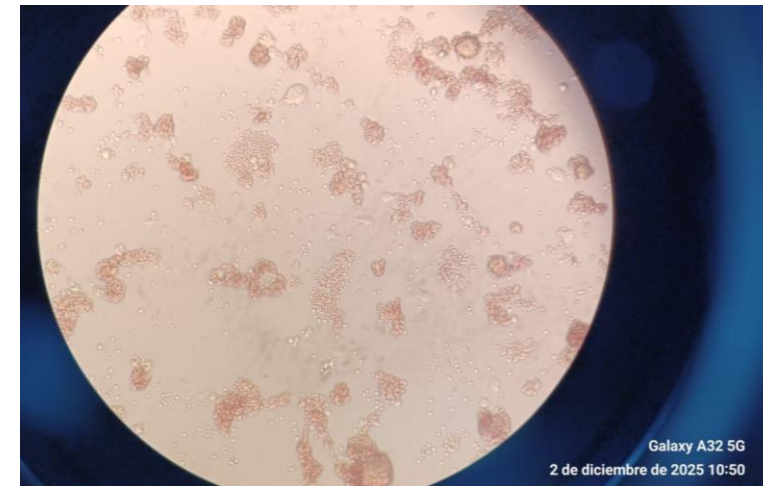
(index case; outbreaks 1 & 2)



December 01st (morning): inoculation of primary monocyte culture (**confirmed as POS next day**; presence of **HAD**)



24h after inoculation; without erythrocytes



24h after inoculation; with erythrocytes

December 03rd (morning): Serology results on plasma

Sample	bELISA	IPT
1	POS	POS
2	NEG	POS

DIAGNOSTIC ACTIVITIES IN LNR (summary of results)

CATALONIA



PCR in IRTA-CReSA as
official laboratory



If POS/INC

Samples sended to
NRL for confirmation



Index case

P54 sequences from all outbreaks present
the **same SNP**

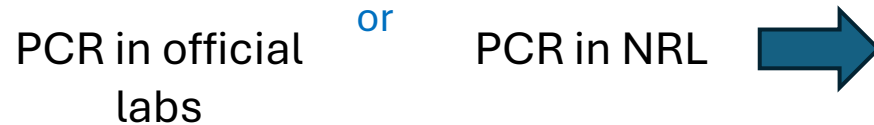
Sera from outbreaks 3 and 4 were **NEGATIVE**
(early infection)

Outbreak	ID	Nº Sample	Date	Sample	PCR	Partial Sequencing (p54)	IPT
1	2025/005957	1	27/11/2025	EDTA Blood	(Ct = 12,4)	Obtained	POS
2	2025/005957	2	27/11/2025	EDTA Blood	(Ct = 7,5)	Obtained	POS
3	2025/005987	1	01/12/2025	EDTA Blood	(Ct = 9,3)	Obtained	Negativo
	2025/005987	2	01/12/2025	EDTA Blood	(Ct = 18,8)	Not done	Negativo
	2025/005987	3	01/12/2025	EDTA Blood	(Ct = 13,4)	Not done	Negativo
	2025/005987	4	01/12/2025	Bone Marrow	(Ct = 13,5)	Obtained	N/A
	2025/005987	5	01/12/2025	Bone Marrow	(Ct = 13,7)	Obtained	N/A
	2025/005987	6	01/12/2025	Bone Marrow	(Ct = 11,7)	Obtained	N/A
	2025/005987	7	01/12/2025	Bone Marrow	(Ct = 17,7)	Obtained	N/A
4	2025/006000	1	02/12/2025	EDTA Blood	No Ct	N/A	Negativo
	2025/006000	2	02/12/2025	EDTA Blood	No Ct	N/A	Negativo
	2025/006000	3	02/12/2025	EDTA Blood	(Ct = 9,8)	Obtained	Negativo
5	2025/006000	4	02/12/2025	Bone Marrow	No Ct	N/A	N/A
	2025/006066	1	03/12/2025	Bone	No Ct	N/A	N/A
	2025/006066	2	03/12/2025	Bone	(Ct = 20,1)	Obtained	N/A
	2025/006066	3	03/12/2025	Bone	(Ct = 17,6)	Obtained	N/A
6	2025/006066	4	03/12/2025	Lymph node	(Ct = 15,5)	Obtained	N/A
	2025/006166	1	10/12/2025	EDTA Blood	(Ct = 8,5)	In process	In process
	2025/006166	2	10/12/2025	EDTA Blood	(Ct = 11,2)	In process	In process
7	2025/006166	3	10/12/2025	Bone	(Ct = 17,5)	Obtained	N/A
8	2025/006205	1	12/12/2025	EDTA Blood	(Ct = 11,5)	Obtained	In process
9	2025/006205	2	12/12/2025	EDTA Blood	No Ct	N/A	In process
	2025/006205	3	12/12/2025	Bone	(Ct = 22,1)	Not done	N/A
	2025/006205	4	12/12/2025	Bone Marrow	(Ct = 16,2)	Obtained	N/A
	2025/006205	5	12/12/2025	Bone	(Ct = 16,4)	Obtained	N/A
	2025/006205	6	12/12/2025	Bone Marrow	(Ct = 21,1)	Not done	N/A
	2025/006205	7	12/12/2025	Bone Marrow	(Ct = 20,0)	Obtained	N/A
	2025/006205	8	12/12/2025	Bone	(Ct = 25,3)	Not done	N/A
	2025/006205	9	12/12/2025	Bone Marrow	(Ct = 18,2)	Obtained	N/A
	2025/006205	10	12/12/2025	Bone	(Ct = 21,9)	Obtained	N/A
	2025/006205	11	12/12/2025	Bone Marrow	(Ct = 14,3)	Obtained	N/A
10	2025/006294	1	18/12/2025	EDTA Blood	(Ct = 11,4)	In process	In process

15,4±4,6

DIAGNOSTIC ACTIVITIES IN LNR (summary of results)

OTHER CCAA



ID	Nº Sample	Date	CCAA	Sample	PCR
2025/005999	1	01/12/2025	CASTILLA LA MANCHA	EDTA Blood	Negativo
2025/005999	2	01/12/2025	CASTILLA LA MANCHA	EDTA Blood	Negativo
2025/005999	3	01/12/2025	CASTILLA LA MANCHA	Spleen	Negativo
2025/006048	1	03/12/2025	COMUNIDAD DE MADRID	EDTA Blood	Negativo
2025/006048	2	03/12/2025	COMUNIDAD DE MADRID	Spleen	Negativo
2025/006048	3	03/12/2025	COMUNIDAD DE MADRID	Spleen	Negativo
2025/006052	1	03/12/2025	ANDALUCÍA	Bone	Negativo
2025/006052	2	03/12/2025	ANDALUCÍA	Bone	Negativo
2025/006052	3	03/12/2025	ANDALUCÍA	Bone	Negativo
2025/006098	1	05/12/2025	COMUNIDAD VALENCIANA	Bone	Negativo
2025/006098	2	05/12/2025	COMUNIDAD VALENCIANA	Spleen	Negativo
2025/006098	3	05/12/2025	COMUNIDAD VALENCIANA	Kidney	Negativo
2025/006142	1	10/12/2025	ANDALUCÍA	Spleen	Negativo
2025/006143	1	10/12/2025	ANDALUCÍA	Bone	Negativo
2025/006149	1	10/12/2025	COMUNIDAD VALENCIANA	Bone	Negativo
2025/006149	2	10/12/2025	COMUNIDAD VALENCIANA	Spleen	Negativo
2025/006149	3	10/12/2025	COMUNIDAD VALENCIANA	Kidney	Negativo
2025/006171	1	11/12/2025	COMUNIDAD VALENCIANA	Bone	Negativo
2025/006171	2	11/12/2025	COMUNIDAD VALENCIANA	Spleen	Negativo
2025/006171	3	11/12/2025	COMUNIDAD VALENCIANA	Kidney	Negativo
2025/006268	1	16/12/2025	LA RIOJA	Bone	Negativo
2025/006283	1	17/12/2025	COMUNIDAD VALENCIANA	Bone	Negativo
2025/006283	2	17/12/2025	COMUNIDAD VALENCIANA	Spleen	Negativo
2025/006283	3	17/12/2025	COMUNIDAD VALENCIANA	Kidney	Negativo

24 samples from 11 Wild boar → **NEGATIVE**

COOPERATION BETWEEN THE NATIONAL REFERENCE LABORATORY (NRL) AND THE EU REFERENCE LABORATORY (EURL) FOR THE MOLECULAR CHARACTERISATION OF THE ASFV.

NRL for AFRICAN SWINE FEVER in SPAIN

22/12/2025



November 28th EURL contacted to us as soon as they learned that an outbreak had been reported in Spain.

As we routinely do with other EURLs, we have informed them of the diagnostic activities carried out and offered to send them samples for confirmation and characterization (WGS), as well as for the EURL collection.

December 01st First shipping to EURL: two DNA samples from the index case

African swine fever (ASF) samples SUBMISSION FORM
Centro de Investigación en Sanidad Animal (CISA-INIA) European Union (EU) reference laboratory for ASF Ctra Algete el Casar s/n CP: 28130 Valdeolmos, Madrid (Spain) Tlf; +34916202300 SUBMISSION FORM MUST BE INCLUDED WITHIN THE PACKAGE OR SEND BY EMAIL TO Dr. Carmina Gallardo (gallardo@inia.csic.es)

December 5th Confirmation and sequencing **report** from the EURL. Immediately sent to SG Animal Health (MAPA)

December 9th Second shipping to EURL including clinical samples