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**African Swine Fever (ASF) diagnosis and molecular characterization
REPORT ISSUED BY THE EUROPEAN UNION REFERENCE LABORATORY FOR AFRICAN
SWINE FEVER (EURL-ASF). INIA-CISA**

DATE: December 19th, 2018.

ARRIVAL DATE TO CISA: July 27th, 2018.

RESPONSIBLE FOR SUBMISSION:

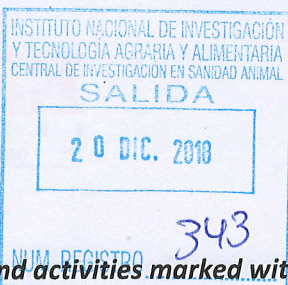
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Num. ARRIVAL REGISTER CISA: REG. 282/2018.

TEST REQUESTED: African swine fever (ASF) confirmatory diagnosis and molecular characterization.

Num. SAMPLES RECEIVED: 527 samples from 152 wild boar comprising 108 tissues, 140 tissue's homogenates, 1 from clotted blod, 26 sera and 252 DNAs (84 of them in 1/10 dilution). The identification of samples is shoed in **table 1**.

Table 1 → Identification of the samples received from the NVRI							
HOST	Animals received	Sample ID CISA	Sample laboratory code			TYPE SAMPLE RECEIVED	
			Id code in Poland's NRL		Sampling localization		
WILD BOAR	23600/17	1	23600/17	CASE382	Janów Podlaski	HOMOGENATE	BONE MARROW
WILD BOAR	23600/17	2	23600/17	CASE382	Janów Podlaski	DNA	BONE MARROW
WILD BOAR	23600/17	3	23600/17	CASE382	Janów Podlaski	DNA 1/10	BONE MARROW
WILD BOAR	23601/17	4	23601/17	CASE 381	Rokitno	HOMOGENATE	BONE MARROW
WILD BOAR	23601/17	5	23601/17	CASE 381	Rokitno	DNA	BONE MARROW
WILD BOAR	23601/17	6	23601/17	CASE 381	Rokitno	DNA 1/10	BONE MARROW
WILD BOAR	23706/17	7	23706/17	CASE 385	Piszczac	HOMOGENATE	BONE MARROW
WILD BOAR	23706/17	8	23706/17	CASE 385	Piszczac	DNA	BONE MARROW
WILD BOAR	23706/17	9	23706/17	CASE 385	Piszczac	DNA 1/10	BONE MARROW
WILD BOAR	23709-2/17	10	23709-2/17	CASE 383	Kodeń	BLOOD	SERUM
WILD BOAR	23709-2/17	11	23709-2/17	CASE 383	Kodeń	DNA	BLOOD
WILD BOAR	23711/17	12	23711/17	CASE 386	Leśna Podlaska	TISSUE	BONE MARROW
WILD BOAR	23711/17	13	23711/17	CASE 386	Leśna Podlaska	HOMOGENATE	BONE MARROW



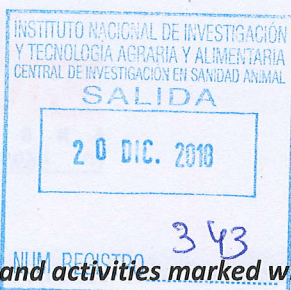
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HOST	Animals received	Sample ID CISA	Sample laboratory code			TYPE SAMPLE RECEIVED	
WILD BOAR	36681/17	392	36681/17	CASE 491	Radzyń Podlaski	HOMOGENATE	SPLEEN
WILD BOAR	36681/17	393	36681/17	CASE 491	Radzyń Podlaski	DNA	SPLEEN
WILD BOAR	36681/17	394	36681/17	CASE 491	Radzyń Podlaski	TISSUE	KIDNEY
WILD BOAR	36681/17	395	36681/17	CASE 491	Radzyń Podlaski	HOMOGENATE	KIDNEY
WILD BOAR	36681/17	396	36681/17	CASE 491	Radzyń Podlaski	DNA	KIDNEY
WILD BOAR	38816/17	397	38816/17	CASE 492	Sidra	HOMOGENATE	BONE MARROW
WILD BOAR	38816/17	398	38816/17	CASE 492	Sidra	DNA	BONE MARROW
WILD BOAR	38816/17	399	38816/17	CASE 492	Sidra	DNA 1/10	BONE MARROW
WILD BOAR	38628-2/17	400	38628-2/17	CASE 498	Hańsk	HOMOGENATE	BONE MARROW
WILD BOAR	38628-2/17	401	38628-2/17	CASE 498	Hańsk	DNA	BONE MARROW
WILD BOAR	38628-2/17	402	38628-2/17	CASE 498	Hańsk	DNA 1/10	BONE MARROW
WILD BOAR	37323/17	403	37323/17	CASE 494	Radzyń Podlaski	TISSUE	SPLEEN
WILD BOAR	37323/17	404	37323/17	CASE 494	Radzyń Podlaski	HOMOGENATE	SPLEEN
WILD BOAR	37323/17	405	37323/17	CASE 494	Radzyń Podlaski	DNA	SPLEEN
WILD BOAR	37323/17	406	37323/17	CASE 494	Radzyń Podlaski	TISSUE	LYMPH NODE
WILD BOAR	37323/17	407	37323/17	CASE 494	Radzyń Podlaski	HOMOGENATE	LYMPH NODE
WILD BOAR	37323/17	408	37323/17	CASE 494	Radzyń Podlaski	DNA	LYMPH NODE
WILD BOAR	38556/17	409	38556/17	CASE 493	Korczew	TISSUE	SPLEEN
WILD BOAR	38556/17	410	38556/17	CASE 493	Korczew	HOMOGENATE	SPLEEN
WILD BOAR	38556/17	411	38556/17	CASE 493	Korczew	DNA	SPLEEN
WILD BOAR	38556/17	412	38556/17	CASE 493	Korczew	TISSUE	LUNG
WILD BOAR	38556/17	413	38556/17	CASE 493	Korczew	HOMOGENATE	LUNG
WILD BOAR	38556/17	414	38556/17	CASE 493	Korczew	DNA	LUNG
WILD BOAR	38997-2/17	415	38997-2/17	CASE 496	Zalesie	HOMOGENATE	BONE MARROW
WILD BOAR	38997-2/17	416	38997-2/17	CASE 496	Zalesie	DNA	BONE MARROW
WILD BOAR	38997-2/17	417	38997-2/17	CASE 496	Zalesie	DNA 1/10	BONE MARROW
WILD BOAR	38997-5/17	418	38997-5/17	CASE 497	Rokitno	TISSUE	BONE MARROW
WILD BOAR	38997-5/17	419	38997-5/17	CASE 497	Rokitno	DNA	BONE MARROW
WILD BOAR	38997-5/17	420	38997-5/17	CASE 497	Rokitno	DNA 1/10	BONE MARROW
WILD BOAR	38999/17	421	38999/17	CASE 495	Łomazy	HOMOGENATE	BONE MARROW
WILD BOAR	38999/17	422	38999/17	CASE 495	Łomazy	DNA	BONE MARROW
WILD BOAR	38999/17	423	38999/17	CASE 495	Łomazy	DNA 1/10	BONE MARROW
WILD BOAR	39686/17	424	39686/17	CASE 499	Czeremcha	HOMOGENATE	BONE MARROW
WILD BOAR	39686/17	425	39686/17	CASE 499	Czeremcha	DNA	BONE MARROW
WILD BOAR	39686/17	426	39686/17	CASE 499	Czeremcha	DNA 1/10	BONE MARROW
WILD BOAR	40579/17	427	40579/17	CASE 500	Barłógów Kościelny	TISSUE	KIDNEY
WILD BOAR	40579/17	428	40579/17	CASE 500	Barłógów Kościelny	HOMOGENATE	KIDNEY
WILD BOAR	40579/17	429	40579/17	CASE 500	Barłógów Kościelny	DNA	KIDNEY
WILD BOAR	40579/17	430	40579/17	CASE 500	Barłógów Kościelny	TISSUE	LUNG
WILD BOAR	40579/17	431	40579/17	CASE 500	Barłógów Kościelny	HOMOGENATE	LUNG
WILD BOAR	40579/17	432	40579/17	CASE 500	Barłógów Kościelny	DNA	LUNG
WILD BOAR	39895/17	433	39895/17	CASE 501	Drelów	BLOOD	SERUM
WILD BOAR	39895/17	434	39895/17	CASE 501	Drelów	DNA	BLOOD
WILD BOAR	39906/17	435	39906/17	CASE 406	Drelów	BLOOD	SERUM
WILD BOAR	39906/17	436	39906/17	CASE 406	Drelów	DNA	BLOOD
WILD BOAR	40101/17	437	40101/17	CASE 505	Kąkolewnica	TISSUE	SPLEEN
WILD BOAR	40101/17	438	40101/17	CASE 505	Kąkolewnica	HOMOGENATE	SPLEEN
WILD BOAR	40101/17	439	40101/17	CASE 505	Kąkolewnica	DNA	SPLEEN
WILD BOAR	40103/17	440	40103/17	CASE 507	Radzyń Podlaski	TISSUE	SPLEEN
WILD BOAR	40103/17	441	40103/17	CASE 507	Radzyń Podlaski	HOMOGENATE	SPLEEN
WILD BOAR	40103/17	442	40103/17	CASE 507	Radzyń Podlaski	DNA	SPLEEN
WILD BOAR	40335/17	443	40335/17	CASE 504	Wola Uhruska	TISSUE	SPLEEN
WILD BOAR	40335/17	444	40335/17	CASE 504	Wola Uhruska	HOMOGENATE	SPLEEN
WILD BOAR	40335/17	445	40335/17	CASE 504	Wola Uhruska	DNA	SPLEEN



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HOST	Animals received	Sample ID CISA	Sample laboratory code			TYPE SAMPLE RECEIVED	
WILD BOAR	40335/17	446	40335/17	CASE 504	Wola Uhruska	TISSUE	LYMPH NODE
WILD BOAR	40335/17	447	40335/17	CASE 504	Wola Uhruska	HOMOGENATE	LYMPH NODE
WILD BOAR	40335/17	448	40335/17	CASE 504	Wola Uhruska	DNA	LYMPH NODE
WILD BOAR	40337/17	449	40337/17	CASE 503	Włodawa	TISSUE	SPLEEN
WILD BOAR	40337/17	450	40337/17	CASE 503	Włodawa	HOMOGENATE	SPLEEN
WILD BOAR	40337/17	451	40337/17	CASE 503	Włodawa	DNA	SPLEEN
WILD BOAR	40337/17	452	40337/17	CASE 503	Włodawa	TISSUE	LUNG
WILD BOAR	40337/17	453	40337/17	CASE 503	Włodawa	HOMOGENATE	LUNG
WILD BOAR	40337/17	454	40337/17	CASE 503	Włodawa	DNA	LUNG
WILD BOAR	40340/17	455	40340/17	CASE 502	Wiryki	TISSUE	SPLEEN
WILD BOAR	40340/17	456	40340/17	CASE 502	Wiryki	HOMOGENATE	SPLEEN
WILD BOAR	40340/17	457	40340/17	CASE 502	Wiryki	DNA	SPLEEN
WILD BOAR	40340/17	458	40340/17	CASE 502	Wiryki	TISSUE	LYMPH NODE
WILD BOAR	40340/17	459	40340/17	CASE 502	Wiryki	HOMOGENATE	LYMPH NODE
WILD BOAR	40340/17	460	40340/17	CASE 502	Wiryki	DNA	LYMPH NODE
WILD BOAR	40527/17	461	40527/17	CASE 514	Kąkolewnica	TISSUE	SPLEEN
WILD BOAR	40527/17	462	40527/17	CASE 514	Kąkolewnica	HOMOGENATE	SPLEEN
WILD BOAR	40527/17	463	40527/17	CASE 514	Kąkolewnica	DNA	SPLEEN
WILD BOAR	40527/17	464	40527/17	CASE 514	Kąkolewnica	TISSUE	KIDNEY
WILD BOAR	40527/17	465	40527/17	CASE 514	Kąkolewnica	HOMOGENATE	KIDNEY
WILD BOAR	40527/17	466	40527/17	CASE 514	Kąkolewnica	DNA	KIDNEY
WILD BOAR	40528/17	467	40528/17	CASE 514	Kąkolewnica	TISSUE	SPLEEN
WILD BOAR	40528/17	468	40528/17	CASE 514	Kąkolewnica	HOMOGENATE	SPLEEN
WILD BOAR	40528/17	469	40528/17	CASE 514	Kąkolewnica	DNA	SPLEEN
WILD BOAR	40528/17	470	40528/17	CASE 514	Kąkolewnica	TISSUE	KIDNEY
WILD BOAR	40528/17	471	40528/17	CASE 514	Kąkolewnica	HOMOGENATE	KIDNEY
WILD BOAR	40528/17	472	40528/17	CASE 514	Kąkolewnica	DNA	KIDNEY
WILD BOAR	41101/17	473	41101/17	CASE 514	Kąkolewnica	TISSUE	BONE MARROW
WILD BOAR	41101/17	474	41101/17	CASE 514	Kąkolewnica	HOMOGENATE	BONE MARROW
WILD BOAR	41101/17	475	41101/17	CASE 514	Kąkolewnica	DNA	BONE MARROW
WILD BOAR	41101/17	476	41101/17	CASE 514	Kąkolewnica	DNA 1/10	BONE MARROW
WILD BOAR	41391/17	477	41391/17	CASE 511	Drelów	TISSUE	BONE MARROW
WILD BOAR	41391/17	478	41391/17	CASE 511	Drelów	HOMOGENATE	BONE MARROW
WILD BOAR	41391/17	479	41391/17	CASE 511	Drelów	DNA	BONE MARROW
WILD BOAR	41391/17	480	41391/17	CASE 511	Drelów	DNA 1/10	BONE MARROW
WILD BOAR	41795-2/17	481	41795-2/17	CASE 508	Przesmyki	TISSUE	BONE MARROW
WILD BOAR	41795-2/17	482	41795-2/17	CASE 508	Przesmyki	HOMOGENATE	BONE MARROW
WILD BOAR	41795-2/17	483	41795-2/17	CASE 508	Przesmyki	DNA	BONE MARROW
WILD BOAR	41795-2/17	484	41795-2/17	CASE 508	Przesmyki	DNA 1/10	BONE MARROW
WILD BOAR	41354/17	485	41354/17	CASE 513	Kąkolewnica	TISSUE	SPLEEN
WILD BOAR	41354/17	486	41354/17	CASE 513	Kąkolewnica	HOMOGENATE	SPLEEN
WILD BOAR	41354/17	487	41354/17	CASE 513	Kąkolewnica	DNA	SPLEEN
WILD BOAR	41354/17	488	41354/17	CASE 513	Kąkolewnica	TISSUE	KIDNEY
WILD BOAR	41354/17	489	41354/17	CASE 513	Kąkolewnica	HOMOGENATE	KIDNEY
WILD BOAR	41354/17	490	41354/17	CASE 513	Kąkolewnica	DNA	KIDNEY
WILD BOAR	41407/17	491	41407/17	CASE 510	Międzyrzec Podlaski	HOMOGENATE	BONE MARROW
WILD BOAR	41407/17	492	41407/17	CASE 510	Międzyrzec Podlaski	DNA	BONE MARROW
WILD BOAR	41407/17	493	41407/17	CASE 510	Międzyrzec Podlaski	DNA 1/10	BONE MARROW
WILD BOAR	41487/17	494	41487/17	CASE 509	Wola Uhruska	HOMOGENATE	BONE MARROW
WILD BOAR	41487/17	495	41487/17	CASE 509	Wola Uhruska	DNA	BONE MARROW
WILD BOAR	41487/17	496	41487/17	CASE 509	Wola Uhruska	DNA 1/10	BONE MARROW
WILD BOAR	41489/17	497	41489/17	CASE 509	Wola Uhruska	TISSUE	SPLEEN
WILD BOAR	41489/17	498	41489/17	CASE 509	Wola Uhruska	HOMOGENATE	SPLEEN
WILD BOAR	41489/17	499	41489/17	CASE 509	Wola Uhruska	DNA	SPLEEN



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HOST	Animals received	Sample ID CISA	Sample laboratory code			TYPE SAMPLE RECEIVED	
WILD BOAR	41489/17	500	41489/17	CASE 509	Wola Uhruska	TISSUE	LYMPH NODE
WILD BOAR	41489/17	501	41489/17	CASE 509	Wola Uhruska	HOMOGENATE	LYMPH NODE
WILD BOAR	41489/17	502	41489/17	CASE 509	Wola Uhruska	DNA	LYMPH NODE
WILD BOAR	41491/17	503	41491/17	CASE 509	Wola Uhruska	TISSUE	SPLEEN
WILD BOAR	41491/17	504	41491/17	CASE 509	Wola Uhruska	HOMOGENATE	SPLEEN
WILD BOAR	41491/17	505	41491/17	CASE 509	Wola Uhruska	DNA	SPLEEN
WILD BOAR	41777-2/17	506	41777-2/17	CASE 512	Drelów	TISSUE	BONE MARROW
WILD BOAR	41777-2/17	507	41777-2/17	CASE 512	Drelów	DNA	BONE MARROW
WILD BOAR	41777-2/17	508	41777-2/17	CASE 512	Drelów	DNA 1/10	BONE MARROW
WILD BOAR	41777-3/17	509	41777-3/17	CASE 511	Drelów	TISSUE	BONE MARROW
WILD BOAR	41777-3/17	510	41777-3/17	CASE 511	Drelów	DNA	BONE MARROW
WILD BOAR	41777-3/17	511	41777-3/17	CASE 511	Drelów	DNA 1/10	BONE MARROW
WILD BOAR	42174-1/17	512	42174-1/17	CASE 515	Włodawa	TISSUE	BONE MARROW
WILD BOAR	42174-1/17	513	42174-1/17	CASE 515	Włodawa	HOMOGENATE	BONE MARROW
WILD BOAR	42174-1/17	514	42174-1/17	CASE 515	Włodawa	DNA	BONE MARROW
WILD BOAR	42174-1/17	515	42174-1/17	CASE 515	Włodawa	DNA 1/10	BONE MARROW
WILD BOAR	41401/17	516	41401/17	CASE 516	Kodeń	DNA	BLOOD
WILD BOAR	42154/17	517	42154/17	CASE 517	Krasnopol	TISSUE	BONE MARROW
WILD BOAR	42154/17	518	42154/17	CASE 517	Krasnopol	HOMOGENATE	BONE MARROW
WILD BOAR	42154/17	519	42154/17	CASE 517	Krasnopol	DNA	BONE MARROW
WILD BOAR	42154/17	520	42154/17	CASE 517	Krasnopol	DNA 1/10	BONE MARROW
WILD BOAR	42233-2/17	521	42233-2/17	CASE 518	Sejny	TISSUE	BONE MARROW
WILD BOAR	42233-2/17	522	42233-2/17	CASE 518	Sejny	HOMOGENATE	BONE MARROW
WILD BOAR	42233-2/17	523	42233-2/17	CASE 518	Sejny	DNA	BONE MARROW
WILD BOAR	42233-2/17	524	42233-2/17	CASE 518	Sejny	DNA 1/10	BONE MARROW
WILD BOAR	42246-7/17	525	42246-7/17	CASE 519	Sejny	BLOOD	SERUM
WILD BOAR	41778-2/17	526	41778-2/17	CASE 521	Biała Podlaska	DNA	BLOOD
WILD BOAR	42287-7/17	527	42287-7/17	CASE 520	Międzyrzec Podlaski	BLOOD	SERUM

EXECUTION DATE: From 30th August to 4th December 2018.

ASF DIAGNOSTIC TESTS PERFORMED:

1. ASF virological diagnosis:

- I. **ASFV genome detection** 10% (w/v) clarified homogenized tissue suspensions have been prepared in phosphate-buffered saline [PNT/CISA/PPA/MUESTRAS/1]. The DNA has been extracted from the 108 tissue homogenates prepared at the EURL, the 141 tissue homogenates received and 25 sera samples using the High Pure PCR Template Preparation Kit [Ref. 11796828001 (ROCHE)] following the standardised procedure [PNT/CISA/PPA/EXTRACCIÓN ADN/1]. For amplification of the ASFV genomic DNA the UPL real-time PCR (Fernández-Pinero *et al.*, 2013) [PNT/CISA/PPA/PCR/3] has been carried out using the undiluted extracted DNA at the EURL and for all DNA samples (252) received from the NRL.
- II. **ASF virus isolation and haemadsorption (HAD) assay*** [PNT/CISA/PPA/VI/1] has been performed on porcine blood monocytes (PBM) from 120 PCR positive selected samples according is described in the OIE Manual (OIE 2012). The PBM were inoculated at a multiplicity of



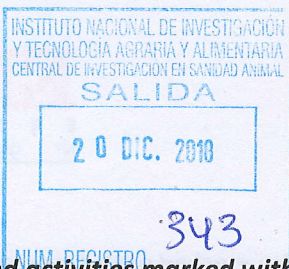
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infection (moi) 1:10 with the PCR positive samples (8 wells/per sample; 10 µl inoculum per well). After inoculation, a preparation of 1% homologous red blood cells in phosphate-buffered saline was added to each well and incubated at 95% relative humidity with 5% CO₂, at 37°C. The plates have been examined for haemadsorption over a period of seven days. Samples have been passaged three times. VI has been repeated twice.

- 2. ASF serological diagnosis**→ For ASF antibody detection, the 26 serum samples were tested using the OIE-Indirect ELISA [PNT/CISA/PPA/ELISA/1] following by the confirmation of positive and/or doubtful results by the OIE-Immunoblotting test [PNT/CISA/PPA/IB/1]. All sera samples were tested using the indirect immunoperoxidase technique (IPT)* [PNT/CISA/PPA/IPT/1]. In addition, 69 tissue's exudate have been tested using the indirect immunoperoxidase technique (IPT)* [PNT/CISA/PPA/IPT/1], in two fold dilutions starting from 1/20. Eighty one 10% (w/v) clarified homogenized tissue suspensions from bone marrow and from tissues which did not exudate were tested together with the clotted blod in two fold dilutions but starting from 1/5.
- 3. ASFV molecular characterization***→ Genetic characterization of ASFV was performed from representatives wild boar cases which resulted PCR positives. In summary have been sequenced 121 out of the 152 wild boar throughout the analysis of four regions of the ASFV genome including; i) the C- terminal end of VP72 coding protein gene which differentiates up to 24 distinct genotypes (Boshoff *et al.*, 2007; Achenbach JE *et al.*, 2016; Quembo *et al.*, 2017), ii) the intergenic region located between the *I73R* and *I329L* genes and characterized by the presence of tandem repeat sequences (TRS) (Gallardo *et al.*, 2014), iii) the central variable region (CVR) within the *B602L*-gene also characterized by the presence of TRS (Gallardo *et al.*, 2011), and iv) the intergenic region between the multigene family (MGF) 505 9R and the 10R genes of ASFV genome (Elsukova, A., *et al.*, 2016). The nucleotide sequences obtained have been compared with **1,271 representative genotype II ASFVs isolated since April 2007 up to September 2018 from wild and domestic pigs in Eastern and Central European countries** (Belgium, Bulgaria, Romania, Hungary, Czech Republic, Lithuania, Poland, Latvia, Estonia, Belarus, Ukraine, Armenia, Azerbaijan, Georgia, Moldova and Russia Federation) available at the EURL.

RESULTS

- 1. ASF VIRUS DETECTION**→ a positive ASFV result has been obtained by the UPL real-time PCR in 507 out of the 525 samples tested, **confirming the presence of ASFV in 145 out of the 151 wild boar tested for virus detection (96.02%)**. The weak positive result (Ct>35) obtained in samples identified as 5, 8, 13, 32, 56, 78, 80, 82, 124, 170, 187, 256, 302, 369,



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372, 374, 379, 381, 395, 410, 413, 415, 417, 512, 525 and 527 (ID CISA) was confirmed in a second PCR amplification run in which the extracted DNA per each sample was analysed by duplicate. **No infectious virus has been obtained after three passages in PBM cells.** The results for virus detection are summarized in **table 2**.

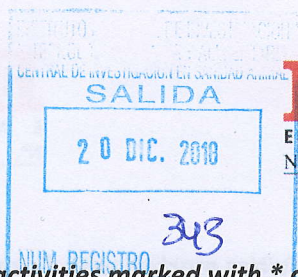
Table 2 → ASF VIRUS DETECTION IN WILD BOAR SAMPLES

Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
1	23600/17	CASE382	HOMOGENATE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
2	23600/17	CASE382	DNA	BONE MARROW	33.42	NT	NT	POSITIVE	NT
3	23600/17	CASE382	DNA 1/10	BONE MARROW	29.85	NT	NT	POSITIVE	NT
4	23601/17	CASE 381	HOMOGENATE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
5	23601/17	CASE 381	DNA	BONE MARROW	36.19	37.4	36.78	WEAK	NT
6	23601/17	CASE 381	DNA 1/10	BONE MARROW	29.46	NT	NT	POSITIVE	NT
7	23706/17	CASE 385	HOMOGENATE	BONE MARROW	No ct	NT	NT	NEG	NT
8	23706/17	CASE 385	DNA	BONE MARROW	36.12	36.9	35.73	WEAK	NT
9	23706/17	CASE 385	DNA 1/10	BONE MARROW	34.08	NT	NT	POSITIVE	NT
10	23709-2/17	CASE 383	BLOOD	SERUM	23.2	NT	NT	POSITIVE	NEGATIVE
11	23709-2/17	CASE 383	DNA	BLOOD	21.67	NT	NT	POSITIVE	NT
12	23711/17	CASE 386	TISSUE	BONE MARROW	31.32	NT	NT	POSITIVE	NEGATIVE
13	23711/17	CASE 386	HOMOGENATE	BONE MARROW	35.02	36.3	36	WEAK	NT
14	23711	CASE 386	DNA	BONE MARROW	32.7	NT	NT	POSITIVE	NT
15	23711	CASE 386	DNA 1/10	BONE MARROW	32.31	NT	NT	POSITIVE	NT
16	23712	CASE 384	HOMOGENATE	BONE MARROW	29.46	NT	NT	POSITIVE	NEGATIVE
17	23712	CASE 384	DNA	BONE MARROW	25.22	NT	NT	POSITIVE	NT
18	23712	CASE 384	DNA 1/10	BONE MARROW	26.58	NT	NT	POSITIVE	NT
19	23927	CASE 387	TISSUE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
20	23927	CASE 387	HOMOGENATE	BONE MARROW	34.79	NT	NT	POSITIVE	NT
21	23927	CASE 387	DNA	BONE MARROW	32.71	NT	NT	POSITIVE	NT
22	23927	CASE 387	DNA 1/10	BONE MARROW	33.99	NT	NT	POSITIVE	NT
23	23944	CASE 388	TISSUE	SPLEEN	19.5	NT	NT	POSITIVE	NEGATIVE
24	23944	CASE 388	HOMOGENATE	SPLEEN	23.96	NT	NT	POSITIVE	NT
25	23944	CASE 388	DNA	SPLEEN	23.55	NT	NT	POSITIVE	NT
26	23944	CASE 388	TISSUE	KIDNEY	22.25	NT	NT	POSITIVE	NT
27	23944	CASE 388	HOMOGENATE	KIDNEY	23.78	NT	NT	POSITIVE	NT
28	23944	CASE 388	DNA	KIDNEY	22.82	NT	NT	POSITIVE	NT
29	24290	CASE 393	HOMOGENATE	BONE MARROW	20.68	NT	NT	POSITIVE	NEGATIVE
30	24290	CASE 393	DNA	BONE MARROW	22.39	NT	NT	POSITIVE	NT
31	24290	CASE 393	DNA 1/10	BONE MARROW	26.59	NT	NT	POSITIVE	NT
32	24297	CASE 391	HOMOGENATE	MUSCLE	36.01	39.3	38.78	WEAK	NT
33	24297	CASE 391	DNA	MUSCLE	32.55	NT	NT	POSITIVE	NT
34	24291	CASE 391	BLOOD	SERUM	21.57*	NT	NT	POSITIVE	NEGATIVE
35	24291/17	CASE 391	DNA	BLOOD	21.05	NT	NT	POSITIVE	NT
36	24298/17	CASE 392	HOMOGENATE	BONE MARROW	33.67	NT	NT	POSITIVE	NT
37	24298/17	CASE 392	DNA	BONE MARROW	29.83	NT	NT	POSITIVE	NT
38	24298/17	CASE 392	DNA 1/10	BONE MARROW	32.5	NT	NT	POSITIVE	NT
39	24299/17	CASE 390	HOMOGENATE	BONE MARROW	30	NT	NT	POSITIVE	NEGATIVE
40	24299/17	CASE 390	DNA	BONE MARROW	24.42	NT	NT	POSITIVE	NT
41	24299/17	CASE 390	DNA 1/10	BONE MARROW	25.13	NT	NT	POSITIVE	NT
42	24660/17	CASE 394	TISSUE	BONE MARROW	21.01	NT	NT	POSITIVE	NEGATIVE
43	24660/17	CASE 394	HOMOGENATE	BONE MARROW	24.08	NT	NT	POSITIVE	NT
44	24660/17	CASE 394	DNA	BONE MARROW	23.46	NT	NT	POSITIVE	NT



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Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
45	24660/17	CASE 394	DNA 1/10	BONE MARROW	27.28	NT	NT	POSITIVE	NT
46	24659-1/17	CASE 395	HOMOGENATE	BONE MARROW	30.91	NT	NT	POSITIVE	NT
47	24659-1/17	CASE 395	DNA	BONE MARROW	24.18	NT	NT	POSITIVE	NT
48	24659-1/17	CASE 395	DNA 1/10	BONE MARROW	26.64	NT	NT	POSITIVE	NT
49	24659-3/17	CASE 395	HOMOGENATE	BONE MARROW	29.23	NT	NT	POSITIVE	NT
50	24659-3/17	CASE 395	DNA	BONE MARROW	20.63	NT	NT	POSITIVE	NT
51	24659-3/17	CASE 395	DNA 1/10	BONE MARROW	23.69	NT	NT	POSITIVE	NT
52	24762/17	CASE 396	TISSUE	SPLEEN	22.11	NT	NT	POSITIVE	NEGATIVE
53	24762/17	CASE 396	HOMOGENATE	SPLEEN	23.77	NT	NT	POSITIVE	NT
54	24762/17	CASE 396	DNA	SPLEEN	18.26	NT	NT	POSITIVE	NT
55	24760-1/17	CASE 397	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NT
56	24835/17	CASE 398	HOMOGENATE	BONE MARROW	35.29	35.7	35.64	WEAK	NT
57	24835/17	CASE 398	DNA	BONE MARROW	34.81	NT	NT	POSITIVE	NT
58	24835/17	CASE 398	DNA 1/10	BONE MARROW	30.7	NT	NT	POSITIVE	NT
59	24833/17	CASE 399	TISSUE	SPLEEN	18.4	NT	NT	POSITIVE	NEGATIVE
60	24833/17	CASE 399	HOMOGENATE	SPLEEN	23.79	NT	NT	POSITIVE	NT
61	24833/17	CASE 399	DNA	SPLEEN	18.79	NT	NT	POSITIVE	NT
62	24919/17	CASE 400	BLOOD	SERUM	29	NT	NT	POSITIVE	NEGATIVE
63	24919/17	CASE 400	DNA	BLOOD	31.17	NT	NT	POSITIVE	NT
64	25028-2/17	CASE 401	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NEGATIVE
65	25474/17	CASE 403	HOMOGENATE	BONE MARROW	34.91	NT	NT	POSITIVE	NT
66	25474/17	CASE 403	DNA	BONE MARROW	24.3	NT	NT	POSITIVE	NT
67	25474/17	CASE 403	DNA 1/10	BONE MARROW	25.58	NT	NT	POSITIVE	NT
68	25475/17	CASE 404	TISSUE	BONE MARROW	25.06	NT	NT	POSITIVE	NEGATIVE
69	25475/17	CASE 404	DNA	BONE MARROW	26.86	NT	NT	POSITIVE	NT
70	25475/17	CASE 404	DNA 1/10	BONE MARROW	27.78	NT	NT	POSITIVE	NT
71	25477/17	CASE 402	HOMOGENATE	CLOT	31.74	NT	NT	POSITIVE	NEGATIVE
72	25477/17	CASE 402	DNA	CLOT	21.89	NT	NT	POSITIVE	NT
73	25795-1/17	CASE 405	HOMOGENATE	BONE MARROW	22.96	NT	NT	POSITIVE	NT
74	25795-1/17	CASE 405	DNA	BONE MARROW	25.11	NT	NT	POSITIVE	NT
75	25795-1/17	CASE 405	DNA 1/10	BONE MARROW	28.65	NT	NT	POSITIVE	NT
76	25795-2/17	CASE 406	HOMOGENATE	BONE MARROW	33.86	NT	NT	POSITIVE	NT
77	25795-2/17	CASE 406	DNA	BONE MARROW	32.53	NT	NT	POSITIVE	NT
78	25795-2/17	CASE 406	DNA 1/10	BONE MARROW	35.98	36.8	36.15	WEAK	NT
79	25664/17	CASE 407	TISSUE	BONE MARROW	30.68	NT	NT	POSITIVE	NEGATIVE
80	25664/17	CASE 407	HOMOGENATE	BONE MARROW	35.3	34.2	35.09	WEAK	NT
81	25664/17	CASE 407	DNA	BONE MARROW	29.66	NT	NT	POSITIVE	NT
82	25664/17	CASE 407	DNA 1/10	BONE MARROW	36.03	35.2	35.23	WEAK	NT
83	25665/17	CASE 409	TISSUE	BONE MARROW	34.03	NT	NT	POSITIVE	NT
84	25665/17	CASE 409	HOMOGENATE	BONE MARROW	31.84	NT	NT	POSITIVE	NT
85	25665/17	CASE 409	DNA	BONE MARROW	29.43	NT	NT	POSITIVE	NT
86	25665/17	CASE 409	DNA 1/10	BONE MARROW	32.32	NT	NT	POSITIVE	NT
87	25666/17	CASE 410	TISSUE	BONE MARROW	28.43	NT	NT	POSITIVE	NEGATIVE
88	25666/17	CASE 410	HOMOGENATE	BONE MARROW	30.35	NT	NT	POSITIVE	NT
89	25666/17	CASE 410	DNA	BONE MARROW	25.86	NT	NT	POSITIVE	NT
90	25666/17	CASE 410	DNA 1/10	BONE MARROW	27.91	NT	NT	POSITIVE	NT
91	25667/17	CASE 408	TISSUE	BONE MARROW	31.88	NT	NT	POSITIVE	NEGATIVE
92	25667/17	CASE 408	DNA	BONE MARROW	25.03	NT	NT	POSITIVE	NT
93	25667/17	CASE 408	DNA 1/10	BONE MARROW	28.65	NT	NT	POSITIVE	NT
94	25668/17	CASE 401	TISSUE	BONE MARROW	31.93	NT	NT	POSITIVE	NEGATIVE
95	25668/17	CASE 401	HOMOGENATE	BONE MARROW	23.79	NT	NT	POSITIVE	NT
96	25668/17	CASE 401	DNA	BONE MARROW	26.47	NT	NT	POSITIVE	NT
97	25668/17	CASE 401	DNA 1/10	BONE MARROW	29.89	NT	NT	POSITIVE	NT
98	25891/17	CASE 411	HOMOGENATE	BONE MARROW	18.09	NT	NT	POSITIVE	NEGATIVE



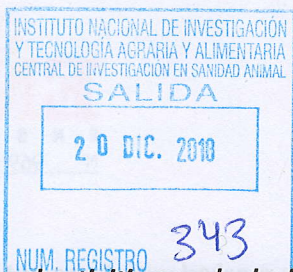
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Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
99	25891/17	CASE 411	DNA	BONE MARROW	20.41	NT	NT	POSITIVE	NT
100	25891/17	CASE 411	DNA 1/10	BONE MARROW	23.8	NT	NT	POSITIVE	NT
101	25892/17	CASE 411	HOMOGENATE	BONE MARROW	26.97	NT	NT	POSITIVE	NT
102	25892/17	CASE 411	DNA	BONE MARROW	20.61	NT	NT	POSITIVE	NT
103	25892/17	CASE 411	DNA 1/10	BONE MARROW	23.93	NT	NT	POSITIVE	NT
104	25894/17	CASE 411	HOMOGENATE	BONE MARROW	30.65	NT	NT	POSITIVE	NT
105	25894/17	CASE 411	DNA	BONE MARROW	29.05	NT	NT	POSITIVE	NT
106	25894/17	CASE 411	DNA 1/10	BONE MARROW	32.03	NT	NT	POSITIVE	NT
107	25662/17	CASE 412	TISSUE	BONE MARROW	30.84	NT	NT	POSITIVE	NEGATIVE
108	25662/17	CASE 412	HOMOGENATE	BONE MARROW	28.77	NT	NT	POSITIVE	NT
109	25662/17	CASE 412	DNA	BONE MARROW	23.19	NT	NT	POSITIVE	NT
110	25662/17	CASE 412	DNA 1/10	BONE MARROW	26.82	NT	NT	POSITIVE	NT
111	25919/17	CASE 413	HOMOGENATE	BONE MARROW	29.81	NT	NT	POSITIVE	NT
112	25919/17	CASE 413	DNA	BONE MARROW	27.6	NT	NT	POSITIVE	NT
113	25919/17	CASE 413	DNA 1/10	BONE MARROW	32.66	NT	NT	POSITIVE	NT
114	26172/17	CASE 414	TISSUE	BONE MARROW	26.88	NT	NT	POSITIVE	NEGATIVE
115	26172/17	CASE 414	HOMOGENATE	BONE MARROW	23.94	NT	NT	POSITIVE	NT
116	26172/17	CASE 414	DNA	BONE MARROW	31.47	NT	NT	POSITIVE	NT
117	26172/17	CASE 414	DNA 1/10	BONE MARROW	29.83	NT	NT	POSITIVE	NT
118	26270/17	CASE 416	HOMOGENATE	BONE MARROW	32.92	NT	NT	POSITIVE	NT
119	26270/17	CASE 416	DNA	BONE MARROW	24.83	NT	NT	POSITIVE	NT
120	26270/17	CASE 416	DNA 1/10	BONE MARROW	27.56	NT	NT	POSITIVE	NT
121	26271/17	CASE 415	HOMOGENATE	BONE MARROW	25.85	NT	NT	POSITIVE	NEGATIVE
122	26271/17	CASE 416	DNA	BONE MARROW	27.43	NT	NT	POSITIVE	NT
123	26271/17	CASE 416	DNA 1/10	BONE MARROW	30.34	NT	NT	POSITIVE	NT
124	26073-3/17	CASE 417	BLOOD	SERUM	36.09	36.8	36.69	WEAK	NT
125	26268/17	CASE 419	BLOOD	SERUM	22.16	NT	NT	POSITIVE	NEGATIVE
126	26268/17	CASE 419	DNA	BLOOD	21.76	NT	NT	POSITIVE	NT
127	26236-1/17	CASE 418	DNA	BLOOD	24.09	NT	NT	POSITIVE	NT
128	26292/17	CASE 420	TISSUE	SPLEEN	22.88	NT	NT	POSITIVE	NEGATIVE
129	26292/17	CASE 420	HOMOGENATE	SPLEEN	20.31*	NT	NT	POSITIVE	NT
130	26292/17	CASE 420	DNA	SPLEEN	18.87	NT	NT	POSITIVE	NT
131	26292/17	CASE 420	TISSUE	TONSIL	28.56	NT	NT	POSITIVE	NT
132	26292/17	CASE 420	HOMOGENATE	TONSIL	25.52	NT	NT	POSITIVE	NT
133	26292/17	CASE 420	DNA	TONSIL	23.97	NT	NT	POSITIVE	NT
134	26583/17	CASE 421	TISSUE	MUSCLE	32.51	NT	NT	POSITIVE	NEGATIVE
135	26583/17	CASE 421	HOMOGENATE	MUSCLE	33.11	NT	NT	POSITIVE	NT
136	26583/17	CASE 421	DNA	MUSCLE	29.56	NT	NT	POSITIVE	NT
137	26890/17	CASE 422	HOMOGENATE	BONE MARROW	24.78	NT	NT	POSITIVE	NEGATIVE
138	26890/17	CASE 422	DNA	BONE MARROW	16.72	NT	NT	POSITIVE	NT
139	26890/17	CASE 422	DNA 1/10	BONE MARROW	19.22	NT	NT	POSITIVE	NT
140	27064/17	CASE 426	DNA	BLOOD	19.4	NT	NT	POSITIVE	NT
141	27030/17	CASE 424	TISSUE	BONE MARROW	27.57	NT	NT	POSITIVE	NEGATIVE
142	27030/17	CASE 424	HOMOGENATE	BONE MARROW	30.22	NT	NT	POSITIVE	NT
143	27030/17	CASE 424	DNA	BONE MARROW	29.37	NT	NT	POSITIVE	NT
144	27030/17	CASE 424	DNA 1/10	BONE MARROW	32.2	NT	NT	POSITIVE	NT
145	27033/17	CASE 425	TISSUE	BONE MARROW	29.89	NT	NT	POSITIVE	NEGATIVE
146	27033/17	CASE 425	HOMOGENATE	BONE MARROW	31.28	NT	NT	POSITIVE	NT
147	27033/17	CASE 425	DNA	BONE MARROW	20.37	NT	NT	POSITIVE	NT
148	27033/17	CASE 425	DNA 1/10	BONE MARROW	21.54	NT	NT	POSITIVE	NT
149	27107/17	CASE423	HOMOGENATE	BONE MARROW	28.09	NT	NT	POSITIVE	NT
150	27107/17	CASE423	DNA	BONE MARROW	17.93	NT	NT	POSITIVE	NT
151	27107/17	CASE423	DNA 1/10	BONE MARROW	20.15	NT	NT	POSITIVE	NT
152	27320-1/17	CASE 427	BLOOD	SERUM	27.91	NT	NT	POSITIVE	NT



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					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
153	27320-1/17	CASE 427	DNA	BLOOD	20.28	NT	NT	POSITIVE	NT
154	27819-1/17	CASE 428	TISSUE	BONE MARROW	31.08	NT	NT	POSITIVE	NEGATIVE
155	27819-1/17	CASE 428	HOMOGENATE	BONE MARROW	32.32	NT	NT	POSITIVE	NT
156	27819-1/17	CASE 428	DNA	BONE MARROW	29.9	NT	NT	POSITIVE	NT
157	27819-1/17	CASE 428	DNA 1/10	BONE MARROW	33.92	NT	NT	POSITIVE	NT
158	27819-2/17	CASE 430	TISSUE	BONE MARROW	28.51	NT	NT	POSITIVE	NEGATIVE
159	27819-2/17	CASE 430	HOMOGENATE	BONE MARROW	30.59	NT	NT	POSITIVE	NT
160	27819-2/17	CASE 430	DNA	BONE MARROW	23.99	NT	NT	POSITIVE	NT
161	27819-2/17	CASE 430	DNA 1/10	BONE MARROW	26.23	NT	NT	POSITIVE	NT
162	27819-3/17	CASE 429	TISSUE	BONE MARROW	20.54	NT	NT	POSITIVE	NEGATIVE
163	27819-3/17	CASE 429	HOMOGENATE	BONE MARROW	23.43	NT	NT	POSITIVE	NT
164	27819-3/17	CASE 429	DNA	BONE MARROW	19.7	NT	NT	POSITIVE	NT
165	27819-3/17	CASE 429	DNA 1/10	BONE MARROW	22.12	NT	NT	POSITIVE	NT
166	28228-1/17	CASE 432	TISSUE	BONE MARROW	28.39	NT	NT	POSITIVE	NEGATIVE
167	28228-1/17	CASE 432	HOMOGENATE	BONE MARROW	27.72	NT	NT	POSITIVE	NT
168	28228-1/17	CASE 432	DNA	BONE MARROW	26.92	NT	NT	POSITIVE	NT
169	28228-1/17	CASE 432	DNA 1/10	BONE MARROW	28.83	NT	NT	POSITIVE	NT
170	28271/17	CASE 433	TISSUE	BONE MARROW	35.58	37.9	37.22	WEAK	NEGATIVE
171	28271/17	CASE 433	HOMOGENATE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
172	28271/17	CASE 433	DNA	BONE MARROW	30.24	NT	NT	POSITIVE	NT
173	28271/17	CASE 433	DNA 1/10	BONE MARROW	27.36	NT	NT	POSITIVE	NT
174	28309-1/17	CASE 431	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NT
175	28546/17	CASE 434	TISSUE	BONE MARROW	25.02	NT	NT	POSITIVE	NEGATIVE
176	28546/17	CASE 434	HOMOGENATE	BONE MARROW	25.4	NT	NT	POSITIVE	NT
177	28546/17	CASE 434	DNA	BONE MARROW	27.26	NT	NT	POSITIVE	NT
178	28546/17	CASE 434	DNA 1/10	BONE MARROW	28.6	NT	NT	POSITIVE	NT
179	28236/17	CASE 435	BLOOD	SERUM	32.94*	NT	NT	POSITIVE	NT
180	28236/17	CASE 435	DNA	BLOOD	28.85	NT	NT	POSITIVE	NEGATIVE
181	28881/17	CASE 437	TISSUE	BONE MARROW	34.4	NT	NT	POSITIVE	NT
182	28881/17	CASE 437	HOMOGENATE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
183	28881/17	CASE 437	DNA	BONE MARROW	31.32	NT	NT	POSITIVE	NT
184	28881/17	CASE 437	DNA 1/10	BONE MARROW	32.39	NT	NT	POSITIVE	NT
185	28714/17	CASE 436	BLOOD	SERUM	30.76	NT	NT	POSITIVE	NT
186	28714/17	CASE 436	DNA	BLOOD	29.57	NT	NT	POSITIVE	NT
187	29350-2/17	CASE 439	TISSUE	BONE MARROW	35.27	36.2	37.77	WEAK	NT
188	29350-2/17	CASE 439	HOMOGENATE	BONE MARROW	28.7*	NT	NT	POSITIVE	NT
189	29350-2/17	CASE 439	DNA	BONE MARROW	26.92	NT	NT	POSITIVE	NT
190	29350-2/17	CASE 439	DNA 1/10	BONE MARROW	30.87	NT	NT	POSITIVE	NT
191	29350-3/17	CASE 439	TISSUE	BONE MARROW	29.11	NT	NT	POSITIVE	NEGATIVE
192	29350-3/17	CASE 439	HOMOGENATE	BONE MARROW	29.45	NT	NT	POSITIVE	NT
193	29350-3/17	CASE 439	DNA	BONE MARROW	30.59	NT	NT	POSITIVE	NT
194	29350-3/17	CASE 439	DNA 1/10	BONE MARROW	32.77	NT	NT	POSITIVE	NT
195	29477-3/17	CASE 438	TISSUE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
196	29477-3/17	CASE 438	HOMOGENATE	BONE MARROW	32.99	NT	NT	POSITIVE	NT
197	29477-3/17	CASE 438	DNA	BONE MARROW	32.17	NT	NT	POSITIVE	NT
198	29477-3/17	CASE 438	DNA 1/10	BONE MARROW	34.84	NT	NT	POSITIVE	NT
199	29790/17	CASE 440	TISSUE	BONE MARROW	28.45	NT	NT	POSITIVE	NEGATIVE
200	29790/17	CASE 440	HOMOGENATE	BONE MARROW	32.08	NT	NT	POSITIVE	NT
201	29790/17	CASE 440	DNA	BONE MARROW	23.6	NT	NT	POSITIVE	NT
202	29790/17	CASE 440	DNA 1/10	BONE MARROW	26.02	NT	NT	POSITIVE	NT
203	30082-18/17	CASE 441	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NT
204	30488-1/17	CASE 442	TISSUE	BONE MARROW	32.41	NT	NT	POSITIVE	NT
205	30488-1/17	CASE 442	HOMOGENATE	BONE MARROW	26.57	NT	NT	POSITIVE	NT
206	30488-1/17	CASE 442	DNA	BONE MARROW	26.67	NT	NT	POSITIVE	NT



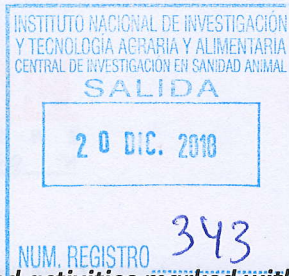
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Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
207	30488-1/17	CASE 442	DNA 1/10	BONE MARROW	29.28	NT	NT	POSITIVE	NT
208	30488-2/17	CASE 443	HOMOGENATE	BONE MARROW	29.39	NT	NT	POSITIVE	NEGATIVE
209	30488-2/17	CASE 443	DNA	BONE MARROW	23.65	NT	NT	POSITIVE	NT
210	30488-2/17	CASE 443	DNA 1/10	BONE MARROW	27.83	NT	NT	POSITIVE	NT
211	30544-1/17	CASE 444	BLOOD	SERUM	26.92	NT	NT	POSITIVE	NEGATIVE
212	30544-1/17	CASE 444	DNA	BLOOD	26.49	NT	NT	POSITIVE	NT
213	30707/17	CASE 445	TISSUE	BONE MARROW	30.69	NT	NT	POSITIVE	NEGATIVE
214	30707/17	CASE 445	HOMOGENATE	BONE MARROW	26.82	NT	NT	POSITIVE	NT
215	30707/17	CASE 445	DNA	BONE MARROW	24.61	NT	NT	POSITIVE	NT
216	30707/17	CASE 445	DNA 1/10	BONE MARROW	27.13	NT	NT	POSITIVE	NT
217	30579-1/17	CASE 446	TISSUE	BONE MARROW	22.67	NT	NT	POSITIVE	NEGATIVE
218	30579-1/17	CASE 446	HOMOGENATE	BONE MARROW	21.44	NT	NT	POSITIVE	NT
219	30579-1/17	CASE 446	DNA	BONE MARROW	21.23	NT	NT	POSITIVE	NT
220	30579-1/17	CASE 446	DNA 1/10	BONE MARROW	24.08	NT	NT	POSITIVE	NT
221	30579-2/17	CASE 447	TISSUE	BONE MARROW	24.38	NT	NT	POSITIVE	NEGATIVE
222	30579-2/17	CASE 447	HOMOGENATE	BONE MARROW	26.23	NT	NT	POSITIVE	NT
223	30579-2/17	CASE 447	DNA	BONE MARROW	27.37	NT	NT	POSITIVE	NT
224	30579-2/17	CASE 447	DNA 1/10	BONE MARROW	30.66	NT	NT	POSITIVE	NT
225	30579-3/17	CASE 448	TISSUE	BONE MARROW	31.27	NT	NT	POSITIVE	NEGATIVE
226	30579-3/17	CASE 448	HOMOGENATE	BONE MARROW	33.95	NT	NT	POSITIVE	NT
227	30579-3/17	CASE 448	DNA	BONE MARROW	29.06	NT	NT	POSITIVE	NT
228	30579-3/17	CASE 448	DNA 1/10	BONE MARROW	31.61	NT	NT	POSITIVE	NT
229	30922-1/17	CASE 449	BLOOD	SERUM	29.82	NT	NT	POSITIVE	NT
230	30922-1/17	CASE 449	DNA	BLOOD	29.69	NT	NT	POSITIVE	NT
231	31180-1/17	CASE 450	HOMOGENATE	BONE MARROW	34.76	NT	NT	POSITIVE	NT
232	31180-1/17	CASE 450	DNA	BONE MARROW	28.23	NT	NT	POSITIVE	NT
233	31180-1/17	CASE 450	DNA 1/10	BONE MARROW	28.11	NT	NT	POSITIVE	NT
234	31180-2/17	CASE 451	HOMOGENATE	BONE MARROW	30.97	NT	NT	POSITIVE	NEGATIVE
235	31180-2/17	CASE 451	DNA	BONE MARROW	30.28	NT	NT	POSITIVE	NEGATIVE
236	31180-2/17	CASE 451	DNA 1/10	BONE MARROW	32.84	NT	NT	POSITIVE	NT
237	30919/17	CASE 452	TISSUE	SPLEEN	28.58	NT	NT	POSITIVE	NT
238	30919/17	CASE 452	HOMOGENATE	SPLEEN	29.76	NT	NT	POSITIVE	NT
239	30919/17	CASE 452	DNA	SPLEEN	24.41	NT	NT	POSITIVE	NT
240	30919/17	CASE 452	TISSUE	TONSIL	30.76	NT	NT	POSITIVE	NEGATIVE
241	30919/17	CASE 452	HOMOGENATE	TONSIL	27.47	NT	NT	POSITIVE	NT
242	30919/17	CASE 452	DNA	TONSIL	27.93	NT	NT	POSITIVE	NT
243	31213/17	CASE 453	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NT
244	31213/17	CASE 453	DNA	BLOOD	27.91	NT	NT	POSITIVE	NT
245	31215-3/17	CASE 454	BLOOD	SERUM	32.88*	NT	NT	POSITIVE	NT
246	31215-3/17	CASE 454	DNA	BLOOD	27.04	NT	NT	POSITIVE	NT
248	32146-3/17	CASE 460	BLOOD	SERUM	34.03	NT	NT	POSITIVE	NT
249	32146-3/17	CASE 460	DNA	BLOOD	21.45*	NT	NT	POSITIVE	NT
250	32147/17	CASE 459	BLOOD	SERUM	26.71*	NT	NT	POSITIVE	NT
251	32147/17	CASE 459	DNA	BLOOD	25.75	NT	NT	POSITIVE	NT
252	32148/17	CASE458	TISSUE	BONE MARROW	21.14	NT	NT	POSITIVE	NT
253	32148/17	CASE458	HOMOGENATE	BONE MARROW	23.69	NT	NT	POSITIVE	NEGATIVE
254	32148/17	CASE458	DNA	BONE MARROW	24.1	NT	NT	POSITIVE	NT
255	32148/17	CASE458	DNA 1/10	BONE MARROW	26.77	NT	NT	POSITIVE	NT
256	32231-4/17	CASE 457	TISSUE	BONE MARROW	36.07	No ct	37.88	WEAK	NT
257	32231-4/17	CASE 457	DNA	BONE MARROW	29.69	NT	NT	POSITIVE	NT
258	32231-4/17	CASE 457	DNA 1/10	BONE MARROW	34.35	NT	NT	POSITIVE	NT
259	32233/17	CASE 456	TISSUE	SPLEEN	25.5	NT	NT	POSITIVE	NT
260	32233/17	CASE 456	HOMOGENATE	SPLEEN	26.13	NT	NT	POSITIVE	NEGATIVE
261	32233/17	CASE 456	DNA	SPLEEN	23.59	NT	NT	POSITIVE	NT



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Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
262	32233/17	CASE 456	TISSUE	LUNG	26.17	NT	NT	POSITIVE	NT
263	32233/17	CASE 456	HOMOGENATE	LUNG	23.85	NT	NT	POSITIVE	NT
264	32233/17	CASE 456	DNA	LUNG	22.64	NT	NT	POSITIVE	NT
265	32235/17	CASE 456	TISSUE	SPLEEN	24.65	NT	NT	POSITIVE	NT
266	32235/17	CASE 456	HOMOGENATE	SPLEEN	28.93	NT	NT	POSITIVE	NT
267	32235/17	CASE 456	DNA	SPLEEN	24.37	NT	NT	POSITIVE	NT
268	32235/17	CASE 456	TISSUE	LUNG	25.17	NT	NT	POSITIVE	NT
269	32235/17	CASE 456	HOMOGENATE	LUNG	31.32	NT	NT	POSITIVE	NT
270	32235/17	CASE 456	DNA	LUNG	22.2	NT	NT	POSITIVE	NT
271	32591/17	CASE 461	TISSUE	BONE MARROW	27.65	NT	NT	POSITIVE	NEGATIVE
272	32591/17	CASE 461	HOMOGENATE	BONE MARROW	34.59	NT	NT	POSITIVE	NT
273	32591/17	CASE 461	DNA	BONE MARROW	23.56	NT	NT	POSITIVE	NT
274	32591/17	CASE 461	DNA 1/10	BONE MARROW	26.28	NT	NT	POSITIVE	NT
275	33068-1/17	CASE 464	HOMOGENATE	BONE MARROW	34.24	NT	NT	POSITIVE	NT
276	33068-1/17	CASE 464	DNA	BONE MARROW	32.9	NT	NT	POSITIVE	NT
277	33068-1/17	CASE 464	DNA 1/10	BONE MARROW	30.11	NT	NT	POSITIVE	NT
278	33068-3/17	CASE 465	TISSUE	BONE MARROW	23.45	NT	NT	POSITIVE	NEGATIVE
279	33068-3/17	CASE 465	HOMOGENATE	BONE MARROW	29.92	NT	NT	POSITIVE	NT
280	33068-3/17	CASE 465	DNA	BONE MARROW	19.75	NT	NT	POSITIVE	NT
281	33068-3/17	CASE 465	DNA 1/10	BONE MARROW	21.78	NT	NT	POSITIVE	NT
282	33086/17	CASE 463	TISSUE	SPLEEN	24.87	NT	NT	POSITIVE	NEGATIVE
283	33086/17	CASE 463	HOMOGENATE	SPLEEN	29.44	NT	NT	POSITIVE	NT
284	33086/17	CASE 463	DNA	SPLEEN	21.24	NT	NT	POSITIVE	NT
285	33086/17	CASE 463	TISSUE	LYMPH NODE	31.08	NT	NT	POSITIVE	NT
286	33086/17	CASE 463	HOMOGENATE	LYMPH NODE	34.5	NT	NT	POSITIVE	NT
287	33086/17	CASE 463	DNA	LYMPH NODE	23.31	NT	NT	POSITIVE	NT
288	33117-1/17	CASE 462	TISSUE	BONE MARROW	31.97	NT	NT	POSITIVE	NEGATIVE
289	33117-1/17	CASE 462	DNA	BONE MARROW	25.96	NT	NT	POSITIVE	NT
290	33117-1/17	CASE 462	DNA 1/10	BONE MARROW	28.93	NT	NT	POSITIVE	NT
291	33190/17	CASE 466	TISSUE	BONE MARROW	30.63	NT	NT	POSITIVE	NEGATIVE
292	33190/17	CASE 466	HOMOGENATE	BONE MARROW	29.93	NT	NT	POSITIVE	NT
293	33190/17	CASE 466	DNA	BONE MARROW	24.11	NT	NT	POSITIVE	NT
294	33190/17	CASE 466	DNA 1/10	BONE MARROW	26.33	NT	NT	POSITIVE	NT
295	33820/17	CASE 467	TISSUE	SPLEEN	27.63	NT	NT	POSITIVE	NEGATIVE
296	33820/17	CASE 467	HOMOGENATE	SPLEEN	30.15	NT	NT	POSITIVE	NT
297	33820/17	CASE 467	DNA	SPLEEN	22.12	NT	NT	POSITIVE	NT
298	33820/17	CASE 467	TISSUE	LYMPH NODE	26.35	NT	NT	POSITIVE	NT
299	33820/17	CASE 467	HOMOGENATE	LYMPH NODE	33.05	NT	NT	POSITIVE	NT
300	33820/17	CASE 467	DNA	LYMPH NODE	21.87	NT	NT	POSITIVE	NT
301	33830-1/17	CASE 468	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NT
302	34154/17	CASE 470	HOMOGENATE	BONE MARROW	37.59	37.3	36.17	WEAK	NT
303	34154/17	CASE 470	DNA	BONE MARROW	33.54	NT	NT	POSITIVE	NT
304	34154/17	CASE 470	DNA 1/10	BONE MARROW	32.56	NT	NT	POSITIVE	NT
305	34178/17	CASE 469	TISSUE	SPLEEN	22.94	NT	NT	POSITIVE	NEGATIVE
306	34178/17	CASE 469	HOMOGENATE	SPLEEN	29.15	NT	NT	POSITIVE	NT
307	34178/17	CASE 469	DNA	SPLEEN	20.4	NT	NT	POSITIVE	NT
308	34178/17	CASE 469	TISSUE	LUNG	26	NT	NT	POSITIVE	NT
309	34178/17	CASE 469	HOMOGENATE	LUNG	30.85	NT	NT	POSITIVE	NT
310	34178/17	CASE 469	DNA	LUNG	21.77	NT	NT	POSITIVE	NT
311	34442-1/17	CASE 471	TISSUE	BONE MARROW	20.11	NT	NT	POSITIVE	NEGATIVE
312	34442-1/17	CASE 471	HOMOGENATE	BONE MARROW	21.64*	NT	NT	POSITIVE	NT
313	34442-1/17	CASE 471	DNA	BONE MARROW	20.53	NT	NT	POSITIVE	NT
314	34442-1/17	CASE 471	DNA 1/10	BONE MARROW	22.29	NT	NT	POSITIVE	NT
315	35522/17	CASE 473	TISSUE	SPLEEN	20.92	NT	NT	POSITIVE	NEGATIVE



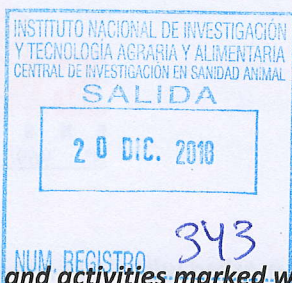
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Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
316	35522/17	CASE 473	HOMOGENATE	SPLEEN	24.08	NT	NT	POSITIVE	NT
317	35522/17	CASE 473	DNA	SPLEEN	20.09	NT	NT	POSITIVE	NT
318	35522/17	CASE 473	TISSUE	KIDNEY	25.85	NT	NT	POSITIVE	NT
319	35522/17	CASE 473	HOMOGENATE	KIDNEY	30.9	NT	NT	POSITIVE	NT
320	35522/17	CASE 473	DNA	KIDNEY	23.69	NT	NT	POSITIVE	NT
321	35437/17	CASE 474	HOMOGENATE	BONE MARROW	27.5	NT	NT	POSITIVE	NEGATIVE
322	35437/17	CASE 474	DNA	BONE MARROW	22.66	NT	NT	POSITIVE	NT
323	35437/17	CASE 474	DNA 1/10	BONE MARROW	21.38	NT	NT	POSITIVE	NT
324	35150/17	CASE 472	BLOOD	SERUM	21.7	NT	NT	POSITIVE	NEGATIVE
325	35150/17	CASE 472	TISSUE	SPLEEN	25.63	NT	NT	POSITIVE	NT
326	35150/17	CASE 472	HOMOGENATE	SPLEEN	23.05	NT	NT	POSITIVE	NT
327	35150/17	CASE 472	DNA	SPLEEN	21.6	NT	NT	POSITIVE	NT
328	35150/17	CASE 472	TISSUE	KIDNEY	27.19	NT	NT	POSITIVE	NT
329	35150/17	CASE 472	HOMOGENATE	KIDNEY	25.08	NT	NT	POSITIVE	NT
330	35150/17	CASE 472	DNA	KIDNEY	23.89	NT	NT	POSITIVE	NT
331	35914/17	CASE 475	TISSUE	SPLEEN	28.17	NT	NT	POSITIVE	NT
332	35914/17	CASE 475	HOMOGENATE	SPLEEN	No ct	NT	NT	NEGATIVE	NT
333	35914/17	CASE 475	DNA	SPLEEN	22.32	NT	NT	POSITIVE	NT
334	35914/17	CASE 475	TISSUE	KIDNEY	25.45	NT	NT	POSITIVE	NEGATIVE
335	35914/17	CASE 475	HOMOGENATE	KIDNEY	35.16	34.3	33.91	POSITIVE	NT
336	35914/17	CASE 475	DNA	KIDNEY	25.63	NT	NT	POSITIVE	NT
337	35918-1/17	CASE 476	HOMOGENATE	SPLEEN	24.16	NT	NT	POSITIVE	NEGATIVE
338	35918-1/17	CASE 476	DNA	SPLEEN	23.81	NT	NT	POSITIVE	NT
339	35918-2/17	CASE 477	HOMOGENATE	SPLEEN	23.39	NT	NT	POSITIVE	NEGATIVE
340	35918-2/17	CASE 477	DNA	SPLEEN	20.75	NT	NT	POSITIVE	NT
341	36062/17	CASE 479	TISSUE	SPLEEN	29.72	NT	NT	POSITIVE	NEGATIVE
342	36062/17	CASE 479	HOMOGENATE	SPLEEN	31.13	NT	NT	POSITIVE	NT
343	36062/17	CASE 479	DNA	SPLEEN	22.85	NT	NT	POSITIVE	NT
344	36063/17	CASE 480	TISSUE	SPLEEN	28.44	NT	NT	POSITIVE	NEGATIVE
345	36063/17	CASE 480	HOMOGENATE	SPLEEN	20.91	NT	NT	POSITIVE	NT
346	36063/17	CASE 480	DNA	SPLEEN	24.31	NT	NT	POSITIVE	NT
347	35901-3/17	CASE 481	BLOOD	SERUM	No ct	NT	NT	NEGATIVE	NT
348	36088/17	CASE 478	TISSUE	SPLEEN	24.69	NT	NT	POSITIVE	NEGATIVE
349	36088/17	CASE 478	HOMOGENATE	SPLEEN	27.55	NT	NT	POSITIVE	NT
350	36088/17	CASE 478	DNA	SPLEEN	22.61	NT	NT	POSITIVE	NT
351	36088/17	CASE 478	TISSUE	KIDNEY	26.78	NT	NT	POSITIVE	NT
352	36088/17	CASE 478	HOMOGENATE	KIDNEY	22.28	NT	NT	POSITIVE	NT
353	36088/17	CASE 478	DNA	KIDNEY	21.75	NT	NT	POSITIVE	NT
354	36491/17	CASE 483	TISSUE	LUNG	24.05	NT	NT	POSITIVE	NEGATIVE
355	36491/17	CASE 483	HOMOGENATE	LUNG	32.92	NT	NT	POSITIVE	NT
356	36491/17	CASE 483	DNA	LUNG	25.15	NT	NT	POSITIVE	NT
357	36492/17	CASE 482	TISSUE	SPLEEN	22.29	NT	NT	POSITIVE	NEGATIVE
358	36492/17	CASE 482	HOMOGENATE	SPLEEN	25.66	NT	NT	POSITIVE	NT
359	36492/17	CASE 482	DNA	SPLEEN	22.3	NT	NT	POSITIVE	NT
360	36492/17	CASE 482	TISSUE	LYMPH NODE	22.56	NT	NT	POSITIVE	NT
361	36492/17	CASE 482	HOMOGENATE	LYMPH NODE	27.52	NT	NT	POSITIVE	NT
362	36492/17	CASE 482	DNA	LYMPH NODE	22.51	NT	NT	POSITIVE	NT
363	36414/17	CASE 484	TISSUE	SPLEEN	25.7	NT	NT	POSITIVE	NEGATIVE
364	36414/17	CASE 484	HOMOGENATE	SPLEEN	26.25	NT	NT	POSITIVE	NT
365	36414/17	CASE 484	DNA	SPLEEN	27	NT	NT	POSITIVE	NT
366	36414/17	CASE 484	TISSUE	KIDNEY	30.81	NT	NT	POSITIVE	NT
367	36414/17	CASE 484	HOMOGENATE	KIDNEY	35.57	34.4	34.27	POSITIVE	NT
368	36414/17	CASE 484	DNA	KIDNEY	NT	NT	NT	NT	NT
369	36209-1/17	CASE 485	HOMOGENATE	BONE MARROW	36.19	36.3	36.17	WEAK	NT



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					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
370	36209-1/17	CASE 485	DNA	BONE MARROW	23.3	NT	NT	POSITIVE	NT
371	36209-1/17	CASE 485	DNA 1/10	BONE MARROW	25.6	NT	NT	POSITIVE	NT
372	36209-2/17	CASE 486	HOMOGENATE	BONE MARROW	35.8	35.2	34.23	WEAK	NT
373	36209-2/17	CASE 486	DNA	BONE MARROW	31.15	NT	NT	POSITIVE	NT
374	36209-2/17	CASE 486	DNA 1/10	BONE MARROW	35.69	37.1	37.77	WEAK	NT
375	36856-1/17	CASE 487	TISSUE	BONE MARROW	30.42	NT	NT	POSITIVE	NEGATIVE
376	36856-1/17	CASE 487	HOMOGENATE	BONE MARROW	24.87	NT	NT	POSITIVE	NT
377	36856-1/17	CASE 487	DNA	BONE MARROW	25.87	NT	NT	POSITIVE	NT
378	36856-1/17	CASE 487	DNA 1/10	BONE MARROW	28.96	NT	NT	POSITIVE	NT
379	37652-1/17	CASE 489	HOMOGENATE	BONE MARROW	38.96	37.5	36.93	WEAK	NT
380	37652-1/17	CASE 489	DNA	BONE MARROW	33.5	NT	NT	POSITIVE	NT
381	37652-1/17	CASE 489	DNA 1/10	BONE MARROW	35.99	No ct	37.62	WEAK	NT
382	37652-2/17	CASE 488	HOMOGENATE	BONE MARROW	28.37	NT	NT	POSITIVE	NEGATIVE
383	37652-2/17	CASE 488	DNA	BONE MARROW	20.42	NT	NT	POSITIVE	NT
384	37652-2/17	CASE 488	DNA 1/10	BONE MARROW	24.01	NT	NT	POSITIVE	NT
385	37932/17	CASE 490	TISSUE	SPLEEN	27.47	NT	NT	POSITIVE	NEGATIVE
386	37932/17	CASE 490	HOMOGENATE	SPLEEN	30.29	NT	NT	POSITIVE	NT
387	37932/17	CASE 490	DNA	SPLEEN	21.87	NT	NT	POSITIVE	NT
388	37932/17	CASE 490	TISSUE	LYMPH NODE	30.03	NT	NT	POSITIVE	NT
389	37932/17	CASE 490	HOMOGENATE	LYMPH NODE	33	NT	NT	POSITIVE	NT
390	37932/17	CASE 490	DNA	LYMPH NODE	27.14	NT	NT	POSITIVE	NT
391	36681/17	CASE 491	TISSUE	SPLEEN	29.19	NT	NT	POSITIVE	NEGATIVE
392	36681/17	CASE 491	HOMOGENATE	SPLEEN	29.16	NT	NT	POSITIVE	NT
393	36681/17	CASE 491	DNA	SPLEEN	24.77	NT	NT	POSITIVE	NT
394	36681/17	CASE 491	TISSUE	KIDNEY	33.88	NT	NT	POSITIVE	NT
395	36681/17	CASE 491	HOMOGENATE	KIDNEY	38.8	36.7	38.37	WEAK	NT
396	36681/17	CASE 491	DNA	KIDNEY	25.37	NT	NT	POSITIVE	NT
397	38816/17	CASE 492	HOMOGENATE	BONE MARROW	31.39*	NT	NT	POSITIVE	NEGATIVE
398	38816/17	CASE 492	DNA	BONE MARROW	21.91	NT	NT	POSITIVE	NT
399	38816/17	CASE 492	DNA 1/10	BONE MARROW	24.67	NT	NT	POSITIVE	NT
400	38628-2/17	CASE 498	HOMOGENATE	BONE MARROW	33.78	NT	NT	POSITIVE	NEGATIVE
401	38628-2/17	CASE 498	DNA	BONE MARROW	27.52	NT	NT	POSITIVE	NT
402	38628-2/17	CASE 498	DNA 1/10	BONE MARROW	27.48	NT	NT	POSITIVE	NT
403	37323/17	CASE 494	TISSUE	SPLEEN	29.24	NT	NT	POSITIVE	NEGATIVE
404	37323/17	CASE 494	HOMOGENATE	SPLEEN	25.35	NT	NT	POSITIVE	NT
405	37323/17	CASE 494	DNA	SPLEEN	21.4	NT	NT	POSITIVE	NT
406	37323/17	CASE 494	TISSUE	LYMPH NODE	32.3	NT	NT	POSITIVE	NT
407	37323/17	CASE 494	HOMOGENATE	LYMPH NODE	31.43	NT	NT	POSITIVE	NT
408	37323/17	CASE 494	DNA	LYMPH NODE	30.41	NT	NT	POSITIVE	NT
409	38556/17	CASE 493	TISSUE	SPLEEN	32.01	NT	NT	POSITIVE	NEGATIVE
410	38556/17	CASE 493	HOMOGENATE	SPLEEN	36.34	36	36.64	WEAK	NT
411	38556/17	CASE 493	DNA	SPLEEN	23.7	NT	NT	POSITIVE	NT
412	38556/17	CASE 493	TISSUE	LUNG	33.15	NT	NT	POSITIVE	NT
413	38556/17	CASE 493	HOMOGENATE	LUNG	38.42	38	37.23	WEAK	NT
414	38556/17	CASE 493	DNA	LUNG	27.49	NT	NT	POSITIVE	NT
415	38997-2/17	CASE 496	HOMOGENATE	BONE MARROW	36.28	36.9	35.83	WEAK	NT
416	38997-2/17	CASE 496	DNA	BONE MARROW	34.18	NT	NT	POSITIVE	NT
417	38997-2/17	CASE 496	DNA 1/10	BONE MARROW	37.68	36.8	No ct	WEAK	NT
418	38997-5/17	CASE 497	TISSUE	BONE MARROW	32.01	NT	NT	POSITIVE	NEGATIVE
419	38997-5/17	CASE 497	DNA	BONE MARROW	31.78	NT	NT	POSITIVE	NT
420	38997-5/17	CASE 497	DNA 1/10	BONE MARROW	33.59	NT	NT	POSITIVE	NT
421	38999/17	CASE 495	HOMOGENATE	BONE MARROW	28.09	NT	NT	POSITIVE	NEGATIVE
422	38999/17	CASE 495	DNA	BONE MARROW	24.76	NT	NT	POSITIVE	NT
423	38999/17	CASE 495	DNA 1/10	BONE MARROW	27.75	NT	NT	POSITIVE	NT



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					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
424	39686/17	CASE 499	HOMOGENATE	BONE MARROW	32.84	NT	NT	POSITIVE	NEGATIVE
425	39686/17	CASE 499	DNA	BONE MARROW	31.37	NT	NT	POSITIVE	NT
426	39686/17	CASE 499	DNA 1/10	BONE MARROW	34.07	NT	NT	POSITIVE	NT
427	40579/17	CASE 500	TISSUE	KIDNEY	25.44	NT	NT	POSITIVE	NT
428	40579/17	CASE 500	HOMOGENATE	KIDNEY	24.01	NT	NT	POSITIVE	NT
429	40579/17	CASE 500	DNA	KIDNEY	23.9	NT	NT	POSITIVE	NT
430	40579/17	CASE 500	TISSUE	LUNG	24.1	NT	NT	POSITIVE	NEGATIVE
431	40579/17	CASE 500	HOMOGENATE	LUNG	25.67	NT	NT	POSITIVE	NT
432	40579/17	CASE 500	DNA	LUNG	21.7	NT	NT	POSITIVE	NT
433	39895/17	CASE 501	BLOOD	SERUM	29.39	NT	NT	POSITIVE	NEGATIVE
434	39895/17	CASE 501	DNA	BLOOD	20.24	NT	NT	POSITIVE	NT
435	39906/17	CASE 406	BLOOD	SERUM	21.58	NT	NT	POSITIVE	NEGATIVE
436	39906/17	CASE 406	DNA	BLOOD	19.77	NT	NT	POSITIVE	NT
437	40101/17	CASE 505	TISSUE	SPLEEN	30.33	NT	NT	POSITIVE	NEGATIVE
438	40101/17	CASE 505	HOMOGENATE	SPLEEN	27.3	NT	NT	POSITIVE	NT
439	40101/17	CASE 505	DNA	SPLEEN	26.11	NT	NT	POSITIVE	NT
440	40103/17	CASE 507	TISSUE	SPLEEN	28.44	NT	NT	POSITIVE	NEGATIVE
441	40103/17	CASE 507	HOMOGENATE	SPLEEN	27.82	NT	NT	POSITIVE	NT
442	40103/17	CASE 507	DNA	SPLEEN	29.43	NT	NT	POSITIVE	NT
443	40335/17	CASE 504	TISSUE	SPLEEN	26.35	NT	NT	POSITIVE	NEGATIVE
444	40335/17	CASE 504	HOMOGENATE	SPLEEN	21.53	NT	NT	POSITIVE	NT
445	40335/17	CASE 504	DNA	SPLEEN	20.79	NT	NT	POSITIVE	NT
446	40335/17	CASE 504	TISSUE	LYMPH NODE	31.07	NT	NT	POSITIVE	NT
447	40335/17	CASE 504	HOMOGENATE	LYMPH NODE	27.3	NT	NT	POSITIVE	NT
448	40335/17	CASE 504	DNA	LYMPH NODE	28.81	NT	NT	POSITIVE	NT
449	40337/17	CASE 503	TISSUE	SPLEEN	26.98	NT	NT	POSITIVE	NEGATIVE
450	40337/17	CASE 503	HOMOGENATE	SPLEEN	22.11	NT	NT	POSITIVE	NT
451	40337/17	CASE 503	DNA	SPLEEN	23.44	NT	NT	POSITIVE	NT
452	40337/17	CASE 503	TISSUE	LUNG	29.67	NT	NT	POSITIVE	NT
453	40337/17	CASE 503	HOMOGENATE	LUNG	23.76	NT	NT	POSITIVE	NT
454	40337/17	CASE 503	DNA	LUNG	25.1	NT	NT	POSITIVE	NT
455	40340/17	CASE 502	TISSUE	SPLEEN	25.32	NT	NT	POSITIVE	NEGATIVE
456	40340/17	CASE 502	HOMOGENATE	SPLEEN	23.53	NT	NT	POSITIVE	NT
457	40340/17	CASE 502	DNA	SPLEEN	19.26	NT	NT	POSITIVE	NT
458	40340/17	CASE 502	TISSUE	LYMPH NODE	29.6	NT	NT	POSITIVE	NT
459	40340/17	CASE 502	HOMOGENATE	LYMPH NODE	27.3	NT	NT	POSITIVE	NT
460	40340/17	CASE 502	DNA	LYMPH NODE	25.35	NT	NT	POSITIVE	NT
461	40527/17	CASE 514	TISSUE	SPLEEN	26.1	NT	NT	POSITIVE	NEGATIVE
462	40527/17	CASE 514	HOMOGENATE	SPLEEN	25.01	NT	NT	POSITIVE	NT
463	40527/17	CASE 514	DNA	SPLEEN	22.24	NT	NT	POSITIVE	NT
464	40527/17	CASE 514	TISSUE	KIDNEY	32.15	NT	NT	POSITIVE	NT
465	40527/17	CASE 514	HOMOGENATE	KIDNEY	32.55	NT	NT	POSITIVE	NT
466	40527/17	CASE 514	DNA	KIDNEY	29.55	NT	NT	POSITIVE	NT
467	40528/17	CASE 514	TISSUE	SPLEEN	26.57	NT	NT	POSITIVE	NT
468	40528/17	CASE 514	HOMOGENATE	SPLEEN	22.38	NT	NT	POSITIVE	NT
469	40528/17	CASE 514	DNA	SPLEEN	21.78	NT	NT	POSITIVE	NT
470	40528/17	CASE 514	TISSUE	KIDNEY	32.19	NT	NT	POSITIVE	NT
471	40528/17	CASE 514	HOMOGENATE	KIDNEY	30.41	NT	NT	POSITIVE	NT
472	40528/17	CASE 514	DNA	KIDNEY	30.03	NT	NT	POSITIVE	NT
473	41101/17	CASE 514	TISSUE	BONE MARROW	33.09	NT	NT	POSITIVE	NT
474	41101/17	CASE 514	HOMOGENATE	BONE MARROW	27	NT	NT	POSITIVE	NT
475	41101/17	CASE 514	DNA	BONE MARROW	26.64	NT	NT	POSITIVE	NT
476	41101/17	CASE 514	DNA 1/10	BONE MARROW	26.83	NT	NT	POSITIVE	NT
477	41391/17	CASE 511	TISSUE	BONE MARROW	33.46	NT	NT	POSITIVE	NEGATIVE



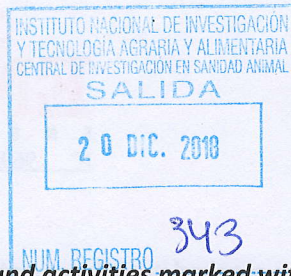
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Sample ID CISA	ID NRL		TYPE OF SAMPLE RECEIVED		UPL-real time PCR ^(a)				VI-HAD ^{(b)*} (3 passages)
					CT value	2 nd PCR CT value	3 rd PCR CT value	Result	
478	41391/17	CASE 511	HOMOGENATE	BONE MARROW	32.93	NT	NT	POSITIVE	NT
479	41391/17	CASE 511	DNA	BONE MARROW	32.74	NT	NT	POSITIVE	NT
480	41391/17	CASE 511	DNA 1/10	BONE MARROW	30.7	NT	NT	POSITIVE	NT
481	41795-2/17	CASE 508	TISSUE	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
482	41795-2/17	CASE 508	HOMOGENATE	BONE MARROW	33.76	NT	NT	POSITIVE	NT
483	41795-2/17	CASE 508	DNA	BONE MARROW	28.48	NT	NT	POSITIVE	NT
484	41795-2/17	CASE 508	DNA 1/10	BONE MARROW	30.05	NT	NT	POSITIVE	NT
485	41354/17	CASE 513	TISSUE	SPLEEN	31.45	NT	NT	POSITIVE	NEGATIVE
486	41354/17	CASE 513	HOMOGENATE	SPLEEN	25.45	NT	NT	POSITIVE	NT
487	41354/17	CASE 513	DNA	SPLEEN	26.94	NT	NT	POSITIVE	NT
488	41354/17	CASE 513	TISSUE	KIDNEY	33.43	NT	NT	POSITIVE	NT
489	41354/17	CASE 513	HOMOGENATE	KIDNEY	37.14	No Ct	No Ct	NEGATIVE	NT
490	41354/17	CASE 513	DNA	KIDNEY	28.7	NT	NT	POSITIVE	NT
491	41407/17	CASE 510	HOMOGENATE	BONE MARROW	30.87	NT	NT	POSITIVE	NT
492	41407/17	CASE 510	DNA	BONE MARROW	29	NT	NT	POSITIVE	NT
493	41407/17	CASE 510	DNA 1/10	BONE MARROW	33.3	NT	NT	POSITIVE	NT
494	41487/17	CASE 509	HOMOGENATE	BONE MARROW	32.28	NT	NT	POSITIVE	NT
495	41487/17	CASE 509	DNA	BONE MARROW	29.47	NT	NT	POSITIVE	NT
496	41487/17	CASE 509	DNA 1/10	BONE MARROW	31.52	NT	NT	POSITIVE	NT
497	41489/17	CASE 509	TISSUE	SPLEEN	27.1	NT	NT	POSITIVE	NT
498	41489/17	CASE 509	HOMOGENATE	SPLEEN	28.24	NT	NT	POSITIVE	NT
499	41489/17	CASE 509	DNA	SPLEEN	23.17	NT	NT	POSITIVE	NT
500	41489/17	CASE 509	TISSUE	LYMPH NODE	31.02	NT	NT	POSITIVE	NT
501	41489/17	CASE 509	HOMOGENATE	LYMPH NODE	30.98	NT	NT	POSITIVE	NT
502	41489/17	CASE 509	DNA	LYMPH NODE	26.38	NT	NT	POSITIVE	NT
503	41491/17	CASE 509	TISSUE	SPLEEN	26.41	NT	NT	POSITIVE	NEGATIVE
504	41491/17	CASE 509	HOMOGENATE	SPLEEN	27.04	NT	NT	POSITIVE	NT
505	41491/17	CASE 509	DNA	SPLEEN	23.33	NT	NT	POSITIVE	NT
506	41777-2/17	CASE 512	TISSUE	BONE MARROW	32.3	NT	NT	POSITIVE	NEGATIVE
507	41777-2/17	CASE 512	DNA	BONE MARROW	24.14	NT	NT	POSITIVE	NT
508	41777-2/17	CASE 512	DNA 1/10	BONE MARROW	26.14	NT	NT	POSITIVE	NT
509	41777-3/17	CASE 511	TISSUE	BONE MARROW	29.33	NT	NT	POSITIVE	NEGATIVE
510	41777-3/17	CASE 511	DNA	BONE MARROW	29.17	NT	NT	POSITIVE	NT
511	41777-3/17	CASE 511	DNA 1/10	BONE MARROW	No ct	NT	NT	NEGATIVE	NT
512	42174-1/17	CASE 515	TISSUE	BONE MARROW	35.46	36.1	34.79	WEAK	NT
513	42174-1/17	CASE 515	HOMOGENATE	BONE MARROW	29.3	NT	NT	POSITIVE	NT
514	42174-1/17	CASE 515	DNA	BONE MARROW	29	NT	NT	POSITIVE	NT
515	42174-1/17	CASE 515	DNA 1/10	BONE MARROW	31.88	NT	NT	POSITIVE	NT
516	41401/17	CASE 516	DNA	BLOOD	19.45	NT	NT	POSITIVE	NT
517	42154/17	CASE 517	TISSUE	BONE MARROW	26.37	NT	NT	POSITIVE	NEGATIVE
518	42154/17	CASE 517	HOMOGENATE	BONE MARROW	30.56	NT	NT	POSITIVE	NT
519	42154/17	CASE 517	DNA	BONE MARROW	24.04	NT	NT	POSITIVE	NT
520	42154/17	CASE 517	DNA 1/10	BONE MARROW	26.83	NT	NT	POSITIVE	NT
521	42233-2/17	CASE 518	TISSUE	BONE MARROW	24.94	NT	NT	POSITIVE	NEGATIVE
522	42233-2/17	CASE 518	HOMOGENATE	BONE MARROW	31.4	NT	NT	POS	NT
523	42233-2/17	CASE 518	DNA	BONE MARROW	22.82	NT	NT	POS	NT
524	42233-2/17	CASE 518	DNA 1/10	BONE MARROW	26.06	NT	NT	POS	NT
525	42246-7/17	CASE 519	BLOOD	SERUM	36.41	38.5	37.05	WEAK	NT
526	41778-2/17	CASE 521	DNA	BLOOD	23.29	NT	NT	POS	NT
527	42287-7/17	CASE 520	BLOOD	SERUM	35.93	37	36.46	WEAK	NT

WEAK= Ct>35; *EXTRACTION 1/10; NT= NOT TESTED;

a) UPL-real time PCR → Real time PCR test described by Fernández et al.. 2013 based on the Universal Probe Library (UPL). [PNT/CISA/PPA/PCR/3]

b) VI-HAD → Virus isolation and haemadsorption test on PBM cells as is described in the OIE Manual of diagnosis for ASF (Chapter 2.8.1. OIE seventh edition 2012).



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The serum sample ID CISA 247 from the wild boar ID 31394-1/17 (case 455) was not analysed by PCR due to the low amount of sample received.

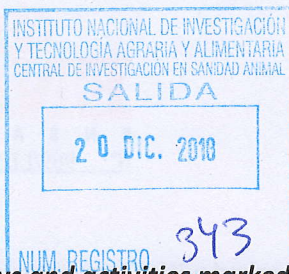
2. **ASF antibody detection** → a total of 176 samples from 148 wild boar were tested by IPT*. The presence of antibodies was confirmed in 109 samples which correspond to **86 out of 148 wild boar tested (58.1%)**. The results obtained in ASF antibody detection by IPT* are summarized in **table 3**.

Table 3 → Antibody detection results by IPT*							
Sample ID CISA	Sample laboratory code				URL-IPT ^(a)		CONCLUSION*
	ID tube	Sample Type		Titer	Result		
1	23600/17	CASE382	HOMOGENATE	BONE MARROW	1/10	WEAK	WEAK
4	23601/17	CASE 381	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
7	23706/17	CASE 385	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
10	23709-2/17	CASE 383	BLOOD	SERUM	NEG	NEG	NEGATIVE
13	23711/17	CASE 386	HOMOGENATE	BONE MARROW	1/5	WEAK	WEAK
16	23712/17	CASE 384	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
20	23927/17	CASE 387	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
23	23944/17	CASE 388	TISSUE	SPLEEN	1/20	WEAK	WEAK
26	23944/17	CASE 388	TISSUE	KIDNEY	1/40	WEAK	WEAK
29	24290/17	CASE 393	TISSUE	BONE MARROW	1/80	POS	POSITIVE
32	24297/17	CASE 391	HOMOGENATE	MUSCLE	1/10	WEAK	WEAK
34	24291/17	CASE 391	BLOOD	SERUM	1/10240	POS	POSITIVE
36	24298/17	CASE 392	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
39	24299/17	CASE 390	HOMOGENATE	BONE MARROW	1/320	POS	POSITIVE
43	24660/17	CASE 394	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
46	24659-1/17	CASE 395	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
49	24659-3/17	CASE 395	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
52	24762/17	CASE 396	TISSUE	SPLEEN	1/640	POS	POSITIVE
55	24760-1/17	CASE 397	BLOOD	SERUM	1/20480	POS	POSITIVE
56	24835/17	CASE 398	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
59	24833/17	CASE 399	TISSUE	SPLEEN	1/1280	POS	POSITIVE
62	24919/17	CASE 400	BLOOD	SERUM	NEG	NEG	NEGATIVE
64	25028-2/17	CASE 401	BLOOD	SERUM	1/5120	POS	POSITIVE
65	25474/17	CASE 403	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
68	25475/17	CASE 404	TISSUE	BONE MARROW	1/80	POS	POSITIVE
71	25477/17	CASE 402	HOMOGENATE	CLOT	1/640	POS	POSITIVE
73	25795-1/17	CASE 405	HOMOGENATE	BONE MARROW	1/20	WEAK	WEAK
76	25795-2/17	CASE 406	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
80	25664/17	CASE 407	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
84	25665/17	CASE 409	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
88	25666/17	CASE 410	HOMOGENATE	BONE MARROW	1/10	WEAK	WEAK
91	25667/17	CASE 408	TISSUE	BONE MARROW	1/5	WEAK	WEAK
95	25668/17	CASE 401	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
98	25891/17	CASE 411	HOMOGENATE	BONE MARROW	1/320	POS	POSITIVE
101	25892/17	CASE 411	HOMOGENATE	BONE MARROW	1/320	POS	POSITIVE
104	25894/17	CASE 411	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
108	25662/17	CASE 412	HOMOGENATE	BONE MARROW	1/1280	POS	POSITIVE
111	25919/17	CASE 413	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
115	26172/17	CASE 414	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
118	26270/17	CASE 416	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
121	26271/17	CASE 415	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
124	26073-3/17	CASE 417	BLOOD	SERUM	1/40960	POS	POSITIVE



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Sample ID CISA	Sample laboratory code				URL-IPT ^(a)		CONCLUSION*
	ID tube		Sample Type		Titer	Result	
125	26268/17	CASE 419	BLOOD	SERUM	1/80	POS	POSITIVE
128	26292/17	CASE 420	TISSUE	SPLEEN	1/10	WEAK	WEAK
131	26292/17	CASE 420	TISSUE	TONSIL	1/10	WEAK	WEAK
135	26583/17	CASE 421	HOMOGENATE	MUSCLE	1/40	WEAK	WEAK
137	26890/17	CASE 422	HOMOGENATE	BONE MARROW	1/160	POS	POSITIVE
142	27030/17	CASE 424	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
146	27033/17	CASE 425	HOMOGENATE	BONE MARROW	1/640	POS	POSITIVE
149	27107/17	CASE423	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
152	27320-1/17	CASE 427	BLOOD	SERUM	NEG	NEG	NEGATIVE
155	27819-1/17	CASE 428	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
159	27819-2/17	CASE 430	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
163	27819-3/17	CASE 429	HOMOGENATE	BONE MARROW	1/160	POS	POSITIVE
167	28228-1/17	CASE 432	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
171	28271/17	CASE 433	HOMOGENATE	BONE MARROW	1/80	POS	POSITIVE
174	28309-1/17	CASE 431	BLOOD	SERUM	1/5120	POS	POSITIVE
176	28546/17	CASE 434	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
179	28236/17	CASE 435	BLOOD	SERUM	NEG	NEG	NEGATIVE
182	28881/17	CASE 437	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
185	28714/17	CASE 436	BLOOD	SERUM	NEG	NEG	NEGATIVE
188	29350-2/17	CASE 439	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
192	29350-3/17	CASE 439	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
196	29477-3/17	CASE 438	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
200	29790/17	CASE 440	HOMOGENATE	BONE MARROW	1/20	WEAK	WEAK
203	30082-18/17	CASE 441	BLOOD	SERUM	1/640	POS	POSITIVE
204	30488-1/17	CASE 442	TISSUE	BONE MARROW	1/80	POS	POSITIVE
205	30488-1/17	CASE 442	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
208	30488-2/17	CASE 443	HOMOGENATE	BONE MARROW	1/640	POS	POSITIVE
211	30544-1/17	CASE 444	BLOOD	SERUM	1/80	POS	POSITIVE
214	30707/17	CASE 445	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
218	30579-1/17	CASE 446	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
222	30579-2/17	CASE 447	HOMOGENATE	BONE MARROW	1/10	WEAK	WEAK
226	30579-3/17	CASE 448	HOMOGENATE	BONE MARROW	1/20	WEAK	WEAK
229	30922-1/17	CASE 449	BLOOD	SERUM	NEG	NEG	NEGATIVE
231	31180-1/17	CASE 450	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
234	31180-2/17	CASE 451	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
237	30919/17	CASE 452	TISSUE	SPLEEN	1/1280	POS	POSITIVE
240	30919/17	CASE 452	TISSUE	TONSIL	1/640	POS	POSITIVE
243	31213/17	CASE 453	BLOOD	SERUM	1/5120	POS	POSITIVE
245	31215-3/17	CASE 454	BLOOD	SERUM	NEG	NEG	NEGATIVE
247	31394-1/17	CASE 455	BLOOD	SERUM	1/40960	POS	POSITIVE
248	32147/17	CASE 460	BLOOD	SERUM	NEG	NEG	NEGATIVE
250	32148/17	CASE 459	BLOOD	SERUM	1/10240	POS	POSITIVE
253	32231-4/17	CASE458	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
256	32233/17	CASE 457	TISSUE	BONE MARROW	NEG	NEG	NEGATIVE
259	32233/17	CASE 456	TISSUE	SPLEEN	1/40	WEAK	WEAK
262	32235/17	CASE 456	TISSUE	LUNG	1/80	POS	POSITIVE
265	32235/17	CASE 456	TISSUE	SPLEEN	1/1280	POS	POSITIVE
268	32591/17	CASE 456	TISSUE	LUNG	1/40960	POS	POSITIVE
272	33068-1/17	CASE 461	HOMOGENATE	BONE MARROW	1/160	POS	POSITIVE
275	33068-3/17	CASE 464	HOMOGENATE	BONE MARROW	1/20	WEAK	WEAK
279	33086/17	CASE 465	HOMOGENATE	BONE MARROW	1/320	POS	POSITIVE
282	33086/17	CASE 463	TISSUE	SPLEEN	1/80	POS	POSITIVE
285	33117-1/17	CASE 463	TISSUE	LYMPH NODE	1/40	WEAK	WEAK
288	33190/17	CASE 462	TISSUE	BONE MARROW	1/5	WEAK	WEAK



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Sample ID CISA	Sample laboratory code				URL-IPT ^(a)		CONCLUSION*
	ID tube	CASE	Sample Type	Titer	Result		
292	33820/17	CASE 466	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
295	33820/17	CASE 467	TISSUE	SPLEEN	1/20	WEAK	WEAK
298	33830-1/17	CASE 467	TISSUE	LYMPH NODE	1/640	POS	POSITIVE
301	34154/17	CASE 468	BLOOD	SERUM	1/20480	POS	POSITIVE
302	34178/17	CASE 470	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
305	32147/17	CASE 469	TISSUE	SPLEEN	1/640	POS	POSITIVE
308	34178/17	CASE 469	TISSUE	LUNG	1/80	POS	POSITIVE
312	34442-1/17	CASE 471	HOMOGENATE	BONE MARROW	1/20	WEAK	WEAK
315	35522/17	CASE 473	TISSUE	SPLEEN	NEG	NEG	NEGATIVE
318	35522/17	CASE 473	TISSUE	KIDNEY	NEG	NEG	NEGATIVE
321	35437/17	CASE 474	HOMOGENATE	BONE MARROW	1/160	POS	POSITIVE
324	35150/17	CASE 472	BLOOD	SERUM	1/81920	POS	POSITIVE
325	35150/17	CASE 472	TISSUE	SPLEEN	1/640	POS	POSITIVE
328	35150/17	CASE 472	TISSUE	KIDNEY	1/640	POS	POSITIVE
331	35914/17	CASE 475	TISSUE	SPLEEN	1/320	POS	POSITIVE
334	35914/17	CASE 475	TISSUE	KIDNEY	1/40	WEAK	WEAK
337	35918-1/17	CASE 476	HOMOGENATE	SPLEEN	NEG	NEG	NEGATIVE
339	35918-2/17	CASE 477	HOMOGENATE	SPLEEN	NEG	NEG	NEGATIVE
341	36062/17	CASE 479	TISSUE	SPLEEN	1/5120	POS	POSITIVE
344	36063/17	CASE 480	TISSUE	SPLEEN	1/5120	POS	POSITIVE
347	35901-3/17	CASE 481	BLOOD	SERUM	1/81920	POS	POSITIVE
348	36088/17	CASE 478	TISSUE	SPLEEN	1/40	WEAK	WEAK
351	36088/17	CASE 478	TISSUE	KIDNEY	1/40	WEAK	WEAK
354	36491/17	CASE 483	TISSUE	LUNG	1/320	POS	POSITIVE
357	36492/17	CASE 482	TISSUE	SPLEEN	1/80	POS	POSITIVE
360	36492/17	CASE 482	TISSUE	LYMPH NODE	1/80	POS	POSITIVE
363	36414/17	CASE 484	TISSUE	SPLEEN	1/20	WEAK	WEAK
366	36414/17	CASE 484	TISSUE	KIDNEY	1/40	WEAK	WEAK
369	36209-1/17	CASE 485	HOMOGENATE	BONE MARROW	1/10	WEAK	WEAK
372	36209-2/17	CASE 486	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
376	36856-1/17	CASE 487	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
379	37652-1/17	CASE 489	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
382	37652-2/17	CASE 488	HOMOGENATE	BONE MARROW	1/640	POS	POSITIVE
385	37932/17	CASE 490	TISSUE	SPLEEN	1/160	POS	POSITIVE
388	37932/17	CASE 490	TISSUE	LYMPH NODE	1/160	POS	POSITIVE
391	36681/17	CASE 491	TISSUE	SPLEEN	1/10240	POS	POSITIVE
394	36681/17	CASE 491	TISSUE	KIDNEY	1/40	WEAK	WEAK
397	38816/17	CASE 492	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
400	38628-2/17	CASE 498	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
403	37323/17	CASE 494	TISSUE	SPLEEN	1/80	POS	POSITIVE
403	37323/17	CASE 494	TISSUE	SPLEEN	1/80	POS	POSITIVE
406	37323/17	CASE 494	TISSUE	LYMPH NODE	1/20	WEAK	WEAK
409	38556/17	CASE 493	TISSUE	SPLEEN	1/80	POS	POSITIVE
412	38556/17	CASE 493	TISSUE	LUNG	1/5	WEAK	WEAK
415	38997-2/17	CASE 496	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
418	38997-5/17	CASE 497	TISSUE	BONE MARROW	NEG	NEG	NEGATIVE
421	38999/17	CASE 495	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
424	39686/17	CASE 499	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
427	40579/17	CASE 500	TISSUE	KIDNEY	NEG	NEG	NEGATIVE
430	40579/17	CASE 500	TISSUE	LUNG	NEG	NEG	NEGATIVE
433	39895/17	CASE 501	BLOOD	SERUM	1/320	POS	POSITIVE
435	39906/17	CASE 406	BLOOD	SERUM	NEG		
437	40101/17	CASE 505	TISSUE	SPLEEN	1/10240	POS	POSITIVE
440	40103/17	CASE 507	TISSUE	SPLEEN	1/5120	POS	POSITIVE



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Sample ID CISA	Sample laboratory code				URL-IPT ^(a)		CONCLUSION*
	ID tube		Sample Type		Titer	Result	
443	40335/17	CASE 504	TISSUE	SPLEEN	NEG	NEG	NEGATIVE
446	40335/17	CASE 504	TISSUE	LYMPH NODE	NEG	NEG	NEGATIVE
449	40337/17	CASE 503	TISSUE	SPLEEN	1/20	WEAK	WEAK
452	40337/17	CASE 503	TISSUE	LUNG	1/10	WEAK	WEAK
455	40340/17	CASE 502	TISSUE	SPLEEN	1/10240	POS	POSITIVE
458	40340/17	CASE 502	TISSUE	LYMPH NODE	1/20480	POS	POSITIVE
461	40527/17	CASE 514	TISSUE	SPLEEN	1/1280	POS	POSITIVE
464	40527/17	CASE 514	TISSUE	KIDNEY	1/320	POS	POSITIVE
467	40528/17	CASE 514	TISSUE	SPLEEN	1/5120	POS	POSITIVE
470	40528/17	CASE 514	TISSUE	KIDNEY	1/640	POS	POSITIVE
474	41101/17	CASE 514	HOMOGENATE	BONE MARROW	1/20	WEAK	WEAK
478	41391/17	CASE 511	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
482	41795-2/17	CASE 508	HOMOGENATE	BONE MARROW	1/40	WEAK	WEAK
485	41354/17	CASE 513	TISSUE	SPLEEN	NEG	NEG	NEGATIVE
488	41354/17	CASE 513	TISSUE	KIDNEY	1/10	WEAK	WEAK
491	41407/17	CASE 510	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
494	41487/17	CASE 509	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
497	41489/17	CASE 509	TISSUE	SPLEEN	NEG	NEG	NEGATIVE
500	41489/17	CASE 509	TISSUE	LYMPH NODE	NEG	NEG	NEGATIVE
503	41491/17	CASE 509	TISSUE	SPLEEN	1/10	WEAK	WEAK
506	41777-2/17	CASE 512	TISSUE	BONE MARROW	NEG	NEG	NEGATIVE
509	41777-3/17	CASE 511	TISSUE	BONE MARROW	1/5	WEAK	WEAK
513	42174-1/17	CASE 515	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
518	42154/17	CASE 517	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
522	42233-2/17	CASE 518	HOMOGENATE	BONE MARROW	NEG	NEG	NEGATIVE
525	42246-7/17	CASE 519	BLOOD	SERUM	1/163840	POS	POSITIVE
527	42287-7/17	CASE 520	BLOOD	SERUM	1/40960	POS	POSITIVE

WEAK= IPT Titre <1/80;

A) URL-IPT→ Indirect immunoperoxidase technique on E70-MS infected cells using the protocol standardized and validated by the European Union Reference Laboratory (EURL). [PNT/CISA/PPA/IPT/1]

17 out of the 26 serum samples received from wild boar gave a positive result by IPT, whereas the number decreased to 14 (10 positive and 4 doubtful) when tested by the OIE-indirect ELISA test. Only 9 were confirmed as positives by the IB assay (3 with a weak result). See **table 4**.

ID CISA	ID NRL	TYPE OF SAMPLE	OIE-ELISA (a)		OIE-IB (b)	URL-IPT* (c)		CONCLUSION*
			O.D. value	Result		Titer	Result	
10	23709-2	SERUM	0.078	NEG	NT	NEG	NEG	NEGATIVE
34	24291	SERUM	0.381	DOUBT	INCONC*	1/10240	POS	POSITIVE
55	24760-1	SERUM	1.01	POS	POS	1/20480	POS	POSITIVE
62	24919	SERUM	0.110	NEG	NT	NEG	NEG	NEGATIVE
64	25028-2	SERUM	0.455	DOUBT	WEAK	1/5120	POS	POSITIVE
124	26073-3	SERUM	1.054	POS	POS	NEG	NEG	POSITIVE
125	26268	SERUM	0.131	NEG	NT	NEG	NEG	POSITIVE
152	27320-1	SERUM	0.164	NEG	NT	NEG	NEG	NEGATIVE
174	28309-1	SERUM	0.560	POS	WEAK	1/5120	POS	POSITIVE
179	28236	SERUM	0.201	NEG	NT	NEG	NEG	NEGATIVE
185	28714	SERUM	0.073	NEG	NT	NEG	NEG	NEGATIVE
203	30082-18	SERUM	0.543	POS	NEG	1/640	POS	POSITIVE
211	30544-1	SERUM	0.110	NEG	NT	1/80	POS	POSITIVE



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ID CISA	ID NRL	TYPE OF SAMPLE	OIE-ELISA (a)		OIE-IB (b)	URL-IPT* (c)		CONCLUSION*
			O.D. value	Result		Titer	Result	
229	30922-1	SERUM	0.080	NEG	NT	NEG	NEG	NEGATIVE
243	31213	SERUM	0.310	DOUBT	DOUBT	1/5120	POS	POSITIVE
245	31215-3	SERUM	0.101	NEG	NEG	NEG	NEG	NEGATIVE
247	31394-1	SERUM	0.752	POS	POS	1/40960	POS	POSITIVE
248	32146-3	SERUM	0.091	NEG	NEG	NEG	NEG	NEGATIVE
250	32147	SERUM	0.494	POS	POS	1/10240	POS	POSITIVE
301	33830-1	SERUM	0.608	POS	INCONC*	1/20480	POS	POSITIVE
324	35150	SERUM	0.331	DOUBT	POS	1/81920	POS	POSITIVE
347	35901-3	SERUM	0.586	POS	INCONC*	1/81920	POS	POSITIVE
433	39895	SERUM	0.061	NEG	NT	1/320	POS	POSITIVE
435	39906	SERUM	0.113	NEG	NT	NEG	NEG	NEGATIVE
525	42246-7	SERUM	0.907	POS	POS	1/163840	POS	POSITIVE
527	42287-7	SERUM	0.357	POS	INCONC*	1/40960	POS	POSITIVE

*INCONC = NON CONCLUSIVE RESULTS;

- (a) OIE-ELISA → indirect ELISA described in the OIE Manual of diagnosis for ASF (Chapter 2.8.1. OIE seven edition 2012). [PNT/CISA/PPA/ELISA/1]
 (b) OIE-IB → Immunoblotting described in the OIE Manual of diagnosis for ASF (Chapter 2.8.1. OIE seven edition 2012) [PNT/CISA/PPA/IB/1]
 (c) URL-IPT → indirect immunoperoxidase technique on E70MS infected cells using the protocol standardized and validated by the European Union Reference Laboratory (URL). [PNT/CISA/PPA/IPT/1]

3. ASFV MOLECULAR CHARACTERIZATION RESULTS*

Genetic characterization of ASFV has been performed from **121 positive PCR samples** from the wild boar cases 381 to 521 as is summarized in **table 5**. The cases 384, 385, 389, 397, 412, 417, 431, 435, 441, 454, 455, 481, 468, 489, 496, 506, and 519 were not included in the genetic characterization due to the negative or weak result obtained by the UPL real time PCR or by the conventional PCRs used for characterization.

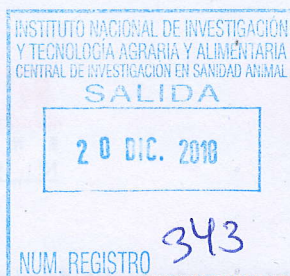
Table 5 → Identification of the wild boar Polish ASFV sequenced

ASFV SEQUENCED	SAMPLING LOCALIZATION	LAB. RESULT DATE	ID ANIMAL	ID CISA
POL17/WB/CASE381	Rokitno, Lubelskie	27/06/2017	23601/17	4
POL17/WB/CASE382	Janów Podlaski, Lubelskie	28/06/2017	23600/17	1
POL17/WB/CASE383	Kodeń, Lubelskie	29/06/2017	23709-2/17	10
POL17/WB/CASE386	Leśna Podlaska, Lubelskie	30/06/2017	23711/17	12
POL17/WB/CASE387	Biała Podlaska, Lubelskie	01/07/2017	23927/17	19
POL17/WB/CASE388	Nurzec Stacja, Podlaskie	03/07/2017	23944/17	23
POL17/WB/CASE390	Biała Podlaska, Lubelskie	03/07/2017	24299/17	39
POL17/WB/CASE391	Biała Podlaska, Lubelskie	03/07/2017	24291/17	34
POL17/WB/CASE392	Piszczac, Lubelskie	03/07/2017	24298/17	36
POL17/WB/CASE393	Leśna Podlaska, Lubelskie	04/07/2017	24290/17	29
POL17/WB/CASE394	Leśna Podlaska, Lubelskie	06/07/2017	24660/17	42
POL17/WB/CASE395	Terespol, Lubelskie	06/07/2017	24659-3/17	49
POL17/WB/CASE396	Biała Podlaska, Lubelskie	07/07/2017	24762/17	52
POL17/WB/CASE398	Biała Podlaska, Lubelskie	08/07/2017	24835/17	56
POL17/WB/CASE399	Jedwabne, Podlaskie	10/07/2017	24833/17	59
POL17/WB/CASE400	Bielsk Podlaski, Podlaskie	03/07/2017	24919/17	62
POL17/WB/CASE401	Piszczac, Lubelskie	13/07/2017	25668/17	94



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ASFV SEQUENCED	SAMPLING LOCALIZATION	LAB. RESULT DATE	ID ANIMAL	ID CISA
POL17/WB/CASE402	Biała Podlaska, Lubelskie	11/07/2017	25477/17	71
POL17/WB/CASE403	Zalesie, Lubelskie	12/07/2017	25474/17	65
POL17/WB/CASE404	Piszczac, Lubelskie	12/07/2017	25475/17	68
POL17/WB/CASE405	Włodawa, Lubelskie	13/07/2017	25795-1/17	73
POL17/WB/CASE406	Drelów, Lubelskie	23/09/2017	39906/17	435
POL17/WB/CASE407	Zalesie, Lubelskie	13/07/2017	25664/17	79
POL17/WB/CASE408	Zalesie, Lubelskie	13/07/2017	25667/17	91
POL17/WB/CASE409	Piszczac, Lubelskie	13/07/2017	25665/17	83
POL17/WB/CASE410	Piszczac, Lubelskie	13/07/2017	25666/17	87
POL17/WB/CASE411	Sarnaki, Mazowieckie	14/07/2017	25892/17	101
POL17/WB/CASE413	Piszczac, Lubelskie	14/07/2017	25919/17	111
POL17/WB/CASE414	Hanna, Lubelskie	18/07/2017	26172/17	114
POL17/WB/CASE415	Biała Podlaska, Lubelskie	17/07/2017	26271/17	121
POL17/WB/CASE416	Piszczac, Lubelskie	18/07/2017	26270/17	118
POL17/WB/CASE418	Biała Podlaska, Lubelskie	13/07/2017	26236-1/17	127
POL17/WB/CASE419	Biała Podlaska, Lubelskie	18/07/2017	26268/17	125
POL17/WB/CASE420	Grajewo, Podlaskie	15/07/2017	26292/17	128
POL17/WB/CASE421	Biała Podlaska, Lubelskie	19/07/2017	26583/17	134
POL17/WB/CASE422	Włodawa, Lubelskie	21/07/2017	26890/17	137
POL17/WB/CASE423	Hanna, Lubelskie	24/07/2017	27107/17	149
POL17/WB/CASE424	Sarnaki, Mazowieckie	21/07/2017	27030/17	141
POL17/WB/CASE425	Biała Podlaska, Lubelskie	21/07/2017	27033/17	145
POL17/WB/CASE426	Leśna Podlaska, Lubelskie	21/07/2017	27064/17	140
POL17/WB/CASE427	Tęczna, Lubelskie	21/07/2017	27320-1/17	152
POL17/WB/CASE428	Włodawa, Lubelskie	26/07/2017	27819-1/17	154
POL17/WB/CASE429	Włodawa, Lubelskie	27/07/2017	27819-3/17	162
POL17/WB/CASE430	Hańsk, Lubelskie	26/07/2017	27819-2/17	158
POL17/WB/CASE432	Rokitno, Lubelskie	28/07/2017	28228-1/17	166
POL17/WB/CASE433	Biała Podlaska, Lubelskie	31/07/2017	28271/17	170
POL17/WB/CASE434	Włodawa, Lubelskie	01/08/2017	28546/17	175
POL17/WB/CASE436	Międzyrzec Podlaski, Lubelskie	01/08/2017	28714/17	185
POL17/WB/CASE437	Komarówka Podlaska, Lubelskie	02/08/2017	28881/17	181
POL17/WB/CASE438	Biała Podlaska, Lubelskie	07/08/2017	29477-3/17	195
POL17/WB/CASE439	Hanna, Lubelskie	07/08/2017	29350-2/17	187
POL17/WB/CASE440	Międzyrzec Podlaski, Lubelskie	08/08/2017	29790/17	199
POL17/WB/CASE442	Włodawa, Lubelskie	12/08/2017	30488-1/17	204
POL17/WB/CASE443	Włodawa, Lubelskie	14/08/2017	30488-2/17	208
POL17/WB/CASE444	Dubicze Cerkiewne, Podlaskie	12/08/2017	30544-1/17	211
POL17/WB/CASE445	Biała Podlaska, Lubelskie	16/08/2017	30707/17	213
POL17/WB/CASE446	Hańsk, Lubelskie	15/08/2017	30579-1/17	217
POL17/WB/CASE447	Włodawa, Lubelskie	15/08/2017	30579-2/17	221
POL17/WB/CASE448	Hanna, Lubelskie	15/08/2017	30579-3/17	225
POL17/WB/CASE449	Szczuczyn, Podlaskie	17/08/2017	30922-1/17	229
POL17/WB/CASE450	Komarówka Podlaska, Lubelskie	18/08/2017	31180-1/17	231
POL17/WB/CASE451	Komarówka Podlaska, Lubelskie	18/08/2017	31180-2/17	234
POL17/WB/CASE452	Rajgród, Podlaskie	14/08/2017	30919/17	237
POL17/WB/CASE453	Biała Podlaska, Lubelskie	19/08/2017	31213/17	243
POL17/WB/CASE456	Włodawa, Lubelskie	22/08/2017	32233/17	259
POL17/WB/CASE457	Włodawa, Lubelskie	23/08/2017	32231-4/17	256
POL17/WB/CASE458	Biała Podlaska, Lubelskie	22/08/2017	32148/17	252
POL17/WB/CASE459	Drelów, Lubelskie	21/08/2017	32147/17	250
POL17/WB/CASE460	Piszczac, Lubelskie	18/08/2017	32146-3/17	248
POL17/WB/CASE461	Międzyrzec Podlaski, Lubelskie	23/08/2017	32591/17	271
POL17/WB/CASE462	Korczew, Mazowieckie	28/08/2017	33117-1/17	288
POL17/WB/CASE463	Hańsk, Lubelskie	24/08/2017	33086/17	282



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ASFV SEQUENCED	SAMPLING LOCALIZATION	LAB. RESULT DATE	ID ANIMAL	ID CISA
POL17/WB/CASE464	Hańsk, Lubelskie	25/08/2017	33068-1/17	275
POL17/WB/CASE465	Włodawa, Lubelskie	28/08/2017	33068-3/17	278
POL17/WB/CASE466	Biała Podlaska, Lubelskie	28/08/2017	33190/17	291
POL17/WB/CASE467	Radzyń Podlaski, Lubelskie	31/08/2017	33820/17	295
POL17/WB/CASE469	Goniądz, Podlaskie	01/09/2017	34178/17	305
POL17/WB/CASE470	Leśna Podlaska, Lubelskie	31/08/2017	34154/17	302
POL17/WB/CASE471	Włodawa, Lubelskie	31/08/2017	34442-1/17	311
POL17/WB/CASE472	Sidra, Podlaskie	06/09/2017	35150/17	324
POL17/WB/CASE473	Narewka, Podlaskie	07/09/2017	35522/17	315
POL17/WB/CASE474	Międzyrzec Podlaski, Lubelskie	07/09/2017	35437/17	321
POL17/WB/CASE475	Radzyń Podlaski, Lubelskie	07/09/2017	35914/17	331
POL17/WB/CASE476	Korczew, Mazowieckie	08/09/2017	35918-1/17	337
POL17/WB/CASE478	Sidra, Podlaskie	07/09/2017	36088/17	348
POL17/WB/CASE479	Korczew, Mazowieckie	09/09/2017	36062/17	341
POL17/WB/CASE480	Korczew, Mazowieckie	09/09/2017	36063/17	344
POL17/WB/CASE482	Włodawa, Lubelskie	11/09/2017	36492/17	357
POL17/WB/CASE483	Wyryki, Lubelskie	11/09/2017	36491/17	354
POL17/WB/CASE484	Krasnopol, Podlaskie	11/09/2017	36414/17	363
POL17/WB/CASE485	Międzyrzec Podlaski, Lubelskie	09/09/2017	36209-1/17	369
POL17/WB/CASE487	Rajgród, Podlaskie	11/09/2017	36856-1/17	375
POL17/WB/CASE488	Wyryki, Lubelskie	14/09/2017	37652-2/17	382
POL17/WB/CASE490	Kąkolewnica, Lubelskie	15/09/2017	37932/17	385
POL17/WB/CASE491	Radzyń Podlaski, Lubelskie	12/09/2017	36681/17	391
POL17/WB/CASE492	Sidra, Podlaskie	18/09/2017	38816/17	397
POL17/WB/CASE493	Korczew, Mazowieckie	18/09/2017	38556/17	409
POL17/WB/CASE494	Radzyń Podlaski, Lubelskie	16/09/2017	37323/17	403
POL17/WB/CASE495	Łomazy, Lubelskie	20/09/2017	38999/17	421
POL17/WB/CASE497	Rokitno, Lubelskie	19/09/2017	38997-5/17	418
POL17/WB/CASE497	Czeremcha, Podlaskie	20/09/2017	39686/17	424
POL17/WB/CASE498	Hańsk, Lubelskie	16/09/2017	38628-2/17	400
POL17/WB/CASE500	Barłógów Kościelny, Podlaskie	25/09/2017	40579/17	427
POL17/WB/CASE501	Drelów, Lubelskie	22/09/2017	39895/17	433
POL17/WB/CASE502	Wyryki, Lubelskie	26/09/2017	40340/17	455
POL17/WB/CASE503	Włodawa, Lubelskie	25/09/2017	40337/17	449
POL17/WB/CASE504	Wola Uhruska, Lubelskie	24/09/2017	40335/17	443
POL17/WB/CASE505	Kąkolewnica, Lubelskie	23/09/2017	40101/17	437
POL17/WB/CASE507	Radzyń Podlaski, Lubelskie	25/09/2017	40103/17	440
POL17/WB/CASE508	Przesmyki, Mazowieckie	28/09/2017	41795-2/17	481
POL17/WB/CASE509	Wola Uhruska, Lubelskie	27/09/2017	41487/17	494
POL17/WB/CASE509	Wola Uhruska, Lubelskie	27/09/2017	41489/17	497
POL17/WB/CASE510	Międzyrzec Podlaski, Lubelskie	26/09/2017	41407/17	491
POL17/WB/CASE511	Drelów, Lubelskie	28/09/2017	41777-3/17	509
POL17/WB/CASE512	Drelów, Lubelskie	28/09/2017	41777-2/17	506
POL17/WB/CASE513	Kąkolewnica, Lubelskie	28/09/2017	41354/17	485
POL17/WB/CASE514	Kąkolewnica, Lubelskie	25/09/2017	40528/17	467
POL17/WB/CASE515	Włodawa, Lubelskie	29/09/2017	42174-1/17	512
POL17/WB/CASE517	Krasnopol, Podlaskie	28/09/2017	42154/17	517
POL17/WB/CASE518	Sejny, Podlaskie	01/10/2017	42233-2/17	521
POL17/WB/CASE521	Biała Podlaska, Lubelskie	28/09/2017	41778-2/17	526

The expected ≈478 bp of the C-terminal p72-gene was obtained in the **121 positive wild boar**. The PCR amplicons were sequenced in order to place the ASFV Polish viruses in one of the defined 24 p72 genotypes. The Polish wild boar (WB) ASFVs clustered **within p72 genotype II** and showed

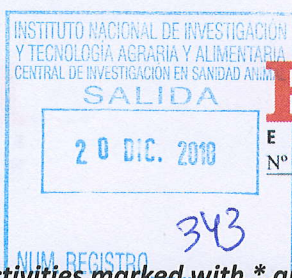


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100% nucleotide identity with all compared ASFV isolates from Eastern and Central Europe across the 478-bp C-terminal *p72* gene. Nucleotide and amino acid sequence analysis of the CVR and the intergenic region between the I73R and I329L genes (IGR_{I73R-I329L})-PCR products placed all the Polish ASF viruses within the **GII-CVR1** and the **IGR_{I73R-I329L}-2 variants respectively**. Finally, the amplification of the **intergenic region between the MGF 505 9R and the 10R genes (IGR MGF)** generated a 507-bp amplicon in the WB viruses from the **cases 388 and 400 characteristic of the the MGF-2 variant**. This variant has been previously identified in others Polish ASFV viruses obtained from wild boar cases occurred in 2016, case 126, and in 2017 from the cases nº 294, 305, 325, 332, 339, 347 and 379, as well as in that obtained from the DP outbreak nº 32. Out of the EU was described in the sequences of the Russian ASFVs from Tver and Vladimir regions at least since 2012 (Elsukova, A. et al., 2016). The estimated size of the remaining WB Polish ASFV isolates was 489 bp which corresponds to the **MGF-1 variant** present in the ASFVs isolated since 2014 from WB and DP in the EU countries, as well as in the ASFV isolates available at the EURL collected from the outbreaks occurred in Belarus in 2013, Ukraine 2012 and 2015 and Moldova in 2016- 2018 (available at the EURL).

A summary about the molecular typing of the Eastern European ASFV isolates is showed in **table 6**.

Table 6→ Summary of the molecular characterization results from Eastern European ASFV isolates 2007-2018				
COUNTRY	YEAR	CVR SUBTYPING	IGR _{I73R-I329L} SUBTYPING	IGR _{MGF} SUBTYPING
Georgia	2007	CVR1	IGR-1	MGF -1
Armenia	2007	CVR1	IGR-1	MGF -1
Azerbaijan	2008	CVR1	IGR-1	MGF -1
Russia	2007-2012	CVR1	IGR-1	MGF -1
Federation	2012-2017	CVR1	IGR-1 + IGR-2	MGF -1 + MGF -2 + MGF -3
Ukraine	2012, 2015	CVR1	IGR-2	MGF -1
Belarus	2013	CVR1	IGR-2	MGF -1
	2014	CVR1	IGR-2	MGF -1
Estonia	2015-2016	CVR1+ CVR 2	IGR-2	MGF -1
	2017-2018	CVR1 + CVR1SNP1*	IGR-2	MGF -1
Latvia	2014-2018	CVR1	IGR-2	MGF -1
	2014-2016	CVR1	IGR-2	MGF -1
Lithuania	2017-2018	CVR1+ CVR1SNP3*	IGR-2	MGF -1+ MGF -4 + MGF -5
	2014-2015	CVR1	IGR-2	MGF -1
Poland	2016	CVR1	IGR-2	MGF -1 + MGF -2
	2017-2018	CVR1 + CVR1SNP2*	IGR-1 + IGR-2 +IGR 3	MGF -1 + MGF -2
Moldova	2016-2018	CVR1	IGR-2	MGF -1



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Czech Republic	2017-2018	CVR1	IGR-2	MGF -1
Romania	2017-2018	CVR1	IGR-2	MGF -1
Hungary	2018	CVR1	IGR-2	MGF -1
Bulgaria	2018	CVR1	IGR-2	MGF -1
Belgium	2018	CVR1	IGR-2	MGF -1

*single nucleotide polymorphism within the CVR 1 variant.

CONCLUSION*

1. The **presence of ASF** has been confirmed throughout ASFV genome and/or antibody detection in **all wild boar** received from the **cases 381 to 521** occurred in Poland since June to October 2017.
2. The **p72 genotyping** of the **121 wild boar Polish ASFV sequenced** clustered the viruses within **p72 genotype II** circulating in the Eastern European countries since the first introduction in Georgia in 2007.
3. The **MGF 505 subtyping** placed the WB viruses from the **cases 388** (collection date 03/07/17, Nurzec Stacja) **and 400** (collection date 03/07/17, Bielsk, Podlaskie), within the **MGF variant 2**. This variant was previously identified in the Polish ASFVs recovered from the cases 126, 294, 305, 325, 332, 339, 347 and 379 occurred in Nurzec Stacja, Czeremcha, and Mielnik since November 2016 up to June 2017, as well as in the **DP outbreak nº 32** reported in Nurzec Stacja,
4. The remaining viruses sequenced clustered within **the CVR-1, IGR-2 and MGF1 variants**. From the data available at the EURL, these are the variants mostly circulating within the EU countries as well as described in Moldova (2016, 2017, 2018), Ukraine (2012, 2015), Belarus (2013) and in certain areas of the Russia Federation.

Below are summarized the results obtained in each **WILD BOAR (table 7)** combining virus and antibody detection tests, as well as the genotyping results.

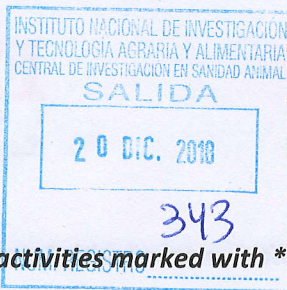
Table 7→ ASF FINAL DIAGNOSTIC RESULT IN WILD BOAR

OUTBREAK DATE	WILD BOAR CASE	ID ANMAL	VIRUS DETECTION	ANTIBOY DETECTION	ASFV SEQUENCED	GENOTYPING			
27/06/2017	CASE 381	23601/17	POSITIVE	NEGATIVE	POL17/WB/CASE381	GII	CVR- 1	IGR-2	MGF1
28/06/2017	CASE 382	23600/17	POSITIVE	WEAK²	POL17/WB/CASE382	GII	CVR- 1	IGR-2	MGF1
29/06/2017	CASE 385	23706/17	POSITIVE	WEAK	<i>not sequenced</i>				
29/06/2017	CASE 384	23712/17	POSITIVE	WEAK	<i>not sequenced</i>				
29/06/2017	CASE 383	23709-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE383	GII	CVR- 1	IGR-2	MGF1
30/06/2017	CASE 386	23711/17	POSITIVE	WEAK	POL17/WB/CASE386	GII	CVR- 1	IGR-2	MGF1
01/07/2017	CASE 387	23927/17	POSITIVE	NEGATIVE	POL17/WB/CASE387	GII	CVR- 1	IGR-2	MGF1
03/07/2017	CASE 388	23944/17	POSITIVE	WEAK	POL17/WB/CASE388	GII	CVR- 1	IGR-2	MGF2



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OUTBREAK DATE	WILD BOAR CASE	ID ANIMAL	VIRUS DETECTION	ANTIBODY DETECTION	ASFV SEQUENCED	GENOTYPING			
03/07/2017	CASE 392	24298/17	POSITIVE	WEAK	POL17/WB/CASE392	GII	CVR- 1	IGR-2	MGF1
03/07/2017	CASE 391	24297/17	WEAK ¹	WEAK	not sequenced				
03/07/2017	CASE 390	24299/17	POSITIVE	POSITIVE	POL17/WB/CASE390	GII	CVR- 1	IGR-2	MGF1
03/07/2017	CASE 391	24291/17	POSITIVE	POSITIVE	POL17/WB/CASE391	GII	CVR- 1	IGR-2	MGF1
03/07/2017	CASE 400	24919/17	POSITIVE	NEGATIVE	POL17/WB/CASE400	GII	CVR- 1	IGR-2	MGF2
04/07/2017	CASE 393	24290/17	POSITIVE	POSITIVE	POL17/WB/CASE393	GII	CVR- 1	IGR-2	MGF1
05/07/2017	CASE 401	25028-2/17	NEGATIVE	POSITIVE	not sequenced				
06/07/2017	CASE 394	24660/17	POSITIVE	NEGATIVE	POL17/WB/CASE394	GII	CVR- 1	IGR-2	MGF1
06/07/2017	CASE 395	24659-1/17	POSITIVE	NEGATIVE	not sequenced				
06/07/2017	CASE 395	24659-3/17	POSITIVE	NEGATIVE	POL17/WB/CASE395	GII	CVR- 1	IGR-2	MGF1
07/07/2017	CASE 397	24760-1/17	NEGATIVE	POSITIVE	not sequenced				
07/07/2017	CASE 396	24762/17	POSITIVE	POSITIVE	POL17/WB/CASE396	GII	CVR- 1	IGR-2	MGF1
07/07/2017	CASE 417	26073-3/17	WEAK	POSITIVE	not sequenced				
08/07/2017	CASE 398	24835/17	WEAK	NEGATIVE	POL17/WB/CASE398	GII	CVR- 1	IGR-2	MGF1
10/07/2017	CASE 399	24833/17	POSITIVE	POSITIVE	POL17/WB/CASE399	GII	CVR- 1	IGR-2	MGF1
11/07/2017	CASE 402	25477/17	POSITIVE	POSITIVE	POL17/WB/CASE402	GII	CVR- 1	IGR-2	MGF1
12/07/2017	CASE 403	25474/17	POSITIVE	WEAK	POL17/WB/CASE403	GII	CVR- 1	IGR-2	MGF1
12/07/2017	CASE 404	25475/17	POSITIVE	POSITIVE	POL17/WB/CASE404	GII	CVR- 1	IGR-2	MGF1
12/07/2017	CASE 412	25662/17	POSITIVE	POSITIVE	not sequenced				
13/07/2017	CASE 405	25795-1/17	POSITIVE	WEAK	POL17/WB/CASE405	GII	CVR- 1	IGR-2	MGF1
13/07/2017	CASE 408	25667/17	POSITIVE	WEAK	POL17/WB/CASE408	GII	CVR- 1	IGR-2	MGF1
13/07/2017	CASE 410	25666/17	POSITIVE	WEAK	POL17/WB/CASE410	GII	CVR- 1	IGR-2	MGF1
13/07/2017	CASE 418	26236-1/17	POSITIVE	NT	POL17/WB/CASE418	GII	CVR- 1	IGR-2	MGF1
13/07/2017	CASE 401	25668/17	POSITIVE	NEGATIVE	POL17/WB/CASE401	GII	CVR- 1	IGR-2	MGF1
13/07/2017	CASE 406	25795-2/17	POSITIVE	NEGATIVE	not sequenced				
13/07/2017	CASE 407	25664/17	POSITIVE	NEGATIVE	POL17/WB/CASE407	GII	CVR- 1	IGR-2	MGF1
13/07/2017	CASE 409	25665/17	POSITIVE	NEGATIVE	POL17/WB/CASE409	GII	CVR- 1	IGR-2	MGF1
14/07/2017	CASE 411	25891/17	POSITIVE	POSITIVE	not sequenced				
14/07/2017	CASE 411	25892/17	POSITIVE	POSITIVE	POL17/WB/CASE411	GII	CVR- 1	IGR-2	MGF1
14/07/2017	CASE 411	25894/17	POSITIVE	NEGATIVE	not sequenced				
14/07/2017	CASE 413	25919/17	POSITIVE	NEGATIVE	POL17/WB/CASE413	GII	CVR- 1	IGR-2	MGF1
15/07/2017	CASE 420	26292/17	POSITIVE	WEAK	POL17/WB/CASE420	GII	CVR- 1	IGR-2	MGF1
17/07/2017	CASE 415	26271/17	POSITIVE	NEGATIVE	POL17/WB/CASE415	GII	CVR- 1	IGR-2	MGF1
18/07/2017	CASE 419	26268/17	POSITIVE	POSITIVE	POL17/WB/CASE419	GII	CVR- 1	IGR-2	MGF1
18/07/2017	CASE 414	26172/17	POSITIVE	NEGATIVE	POL17/WB/CASE414	GII	CVR- 1	IGR-2	MGF1
18/07/2017	CASE 416	26270/17	POSITIVE	NEGATIVE	POL17/WB/CASE416	GII	CVR- 1	IGR-2	MGF1
19/07/2017	CASE 421	26583/17	POSITIVE	WEAK	POL17/WB/CASE421	GII	CVR- 1	IGR-2	MGF1
21/07/2017	CASE 422	26890/17	POSITIVE	POSITIVE	POL17/WB/CASE422	GII	CVR- 1	IGR-2	MGF1
21/07/2017	CASE 425	27033/17	POSITIVE	POSITIVE	POL17/WB/CASE425	GII	CVR- 1	IGR-2	MGF1
21/07/2017	CASE 426	27064/17	POSITIVE	NT	POL17/WB/CASE426	GII	CVR- 1	IGR-2	MGF1
21/07/2017	CASE 424	27030/17	POSITIVE	NEGATIVE	POL17/WB/CASE424	GII	CVR- 1	IGR-2	MGF1
21/07/2017	CASE 427	27320-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE427	GII	CVR- 1	IGR-2	MGF1
24/07/2017	CASE 423	27107/17	POSITIVE	NEGATIVE	POL17/WB/CASE423	GII	CVR- 1	IGR-2	MGF1
26/07/2017	CASE 428	27819-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE428	GII	CVR- 1	IGR-2	MGF1
26/07/2017	CASE 430	27819-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE430	GII	CVR- 1	IGR-2	MGF1
27/07/2017	CASE 431	28309-1/17	NEGATIVE	POSITIVE	not sequenced				



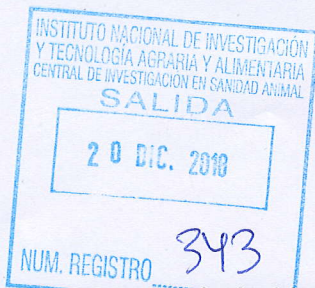
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OUTBREAK DATE	WILD BOAR CASE	ID ANIMAL	VIRUS DETECTION	ANTIBOY DETECTION	ASFV SEQUENCED	GENOTYPING			
						GII	CVR-1	IGR-2	MGF1
27/07/2017	CASE 429	27819-3/17	POSITIVE	POSITIVE	POL17/WB/CASE429	GII	CVR-1	IGR-2	MGF1
28/07/2017	CASE 432	28228-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE432	GII	CVR-1	IGR-2	MGF1
31/07/2017	CASE 433	28271/17	POSITIVE	POSITIVE	POL17/WB/CASE433	GII	CVR-1	IGR-2	MGF1
31/07/2017	CASE 435	28236/17	POSITIVE	NEGATIVE	not sequenced				
01/08/2017	CASE 434	28546/17	POSITIVE	NEGATIVE	POL17/WB/CASE434	GII	CVR-1	IGR-2	MGF1
01/08/2017	CASE 436	28714/17	POSITIVE	NEGATIVE	POL17/WB/CASE436	GII	CVR-1	IGR-2	MGF1
02/08/2017	CASE 437	28881/17	POSITIVE	NEGATIVE	POL17/WB/CASE437	GII	CVR-1	IGR-2	MGF1
07/08/2017	CASE 439	29350-3/17	POSITIVE	NEGATIVE	not sequenced				
07/08/2017	CASE 438	29477-3/17	POSITIVE	NEGATIVE	POL17/WB/CASE438	GII	CVR-1	IGR-2	MGF1
07/08/2017	CASE 439	29350-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE439	GII	CVR-1	IGR-2	MGF1
08/08/2017	CASE 440	29790/17	POSITIVE	WEAK	POL17/WB/CASE440	GII	CVR-1	IGR-2	MGF1
10/08/2017	CASE 441	30082-18/17	NEGATIVE	POSITIVE	not sequenced				
12/08/2017	CASE 442	30488-1/17	POSITIVE	POSITIVE	POL17/WB/CASE442	GII	CVR-1	IGR-2	MGF1
12/08/2017	CASE 444	30544-1/17	POSITIVE	POSITIVE	POL17/WB/CASE444	GII	CVR-1	IGR-2	MGF1
14/08/2017	CASE 443	30488-2/17	POSITIVE	POSITIVE	POL17/WB/CASE443	GII	CVR-1	IGR-2	MGF1
14/08/2017	CASE 452	30919/17	POSITIVE	POSITIVE	POL17/WB/CASE452	GII	CVR-1	IGR-2	MGF1
15/08/2017	CASE 447	30579-2/17	POSITIVE	WEAK	POL17/WB/CASE447	GII	CVR-1	IGR-2	MGF1
15/08/2017	CASE 448	30579-3/17	POSITIVE	WEAK	POL17/WB/CASE448	GII	CVR-1	IGR-2	MGF1
15/08/2017	CASE 446	30579-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE446	GII	CVR-1	IGR-2	MGF1
16/08/2017	CASE 445	30707/17	POSITIVE	NEGATIVE	POL17/WB/CASE445	GII	CVR-1	IGR-2	MGF1
16/08/2017	CASE 454	31215-3/17	POSITIVE	NEGATIVE	not sequenced				
17/08/2017	CASE 449	30922-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE449	GII	CVR-1	IGR-2	MGF1
18/08/2017	CASE 455	31394-1/17	NT	POSITIVE	not sequenced				
18/08/2017	CASE 450	31180-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE450	GII	CVR-1	IGR-2	MGF1
18/08/2017	CASE 451	31180-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE451	GII	CVR-1	IGR-2	MGF1
18/08/2017	CASE 460	32146-3/17	POSITIVE	NEGATIVE	POL17/WB/CASE460	GII	CVR-1	IGR-2	MGF1
19/08/2017	CASE 453	31213/17	POSITIVE	POSITIVE	POL17/WB/CASE453	GII	CVR-1	IGR-2	MGF1
21/08/2017	CASE 459	32147/17	POSITIVE	POSITIVE	POL17/WB/CASE459	GII	CVR-1	IGR-2	MGF1
22/08/2017	CASE 456	32233/17	POSITIVE	POSITIVE	POL17/WB/CASE456	GII	CVR-1	IGR-2	MGF1
22/08/2017	CASE 456	32235/17	POSITIVE	POSITIVE	not sequenced				
22/08/2017	CASE 458	32148/17	POSITIVE	NEGATIVE	POL17/WB/CASE458	GII	CVR-1	IGR-2	MGF1
23/08/2017	CASE 461	32591/17	POSITIVE	POSITIVE	POL17/WB/CASE461	GII	CVR-1	IGR-2	MGF1
23/08/2017	CASE 457	32231-4/17	POSITIVE	NEGATIVE	POL17/WB/CASE457	GII	CVR-1	IGR-2	MGF1
24/08/2017	CASE 463	33086/17	POSITIVE	POSITIVE	POL17/WB/CASE463	GII	CVR-1		
25/08/2017	CASE 464	33068-1/17	POSITIVE	WEAK	POL17/WB/CASE464	GII	CVR-1	IGR-2	MGF1
28/08/2017	CASE 462	33117-1/17	POSITIVE	WEAK	POL17/WB/CASE462	GII	CVR-1	IGR-2	MGF1
28/08/2017	CASE 465	33068-3/17	POSITIVE	POSITIVE	POL17/WB/CASE465	GII	CVR-1	IGR-2	MGF1
28/08/2017	CASE 466	33190/17	POSITIVE	NEGATIVE	POL17/WB/CASE466	GII	CVR-1	IGR-2	MGF1
29/08/2017	CASE 468	33830-1/17	NEGATIVE	POSITIVE	not sequenced				
31/08/2017	CASE 470	34154/17	POSITIVE	WEAK	POL17/WB/CASE470	GII	CVR-1	IGR-2	MGF1
31/08/2017	CASE 471	34442-1/17	POSITIVE	WEAK	POL17/WB/CASE471	GII	CVR-1	IGR-2	MGF1
31/08/2017	CASE 481	35901-3/17	NEGATIVE	POSITIVE	not sequenced				
31/08/2017	CASE 467	33820/17	POSITIVE	POSITIVE	POL17/WB/CASE467	GII	CVR-1	IGR-2	MGF1
01/09/2017	CASE 469	34178/17	POSITIVE	POSITIVE	POL17/WB/CASE469	GII	CVR-1	IGR-2	MGF1
06/09/2017	CASE 472	35150/17	POSITIVE	POSITIVE	POL17/WB/CASE472	GII	CVR-1	IGR-2	MGF1
07/09/2017	CASE 478	36088/17	POSITIVE	WEAK	POL17/WB/CASE478	GII	CVR-1	IGR-2	MGF1



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OUTBREAK DATE	WILD BOAR CASE	ID ANMAL	VIRUS DETECTION	ANTIBOY DETECTION	ASFV SEQUENCED	GENOTYPING			
07/09/2017	CASE 474	35437/17	POSITIVE	POSITIVE	POL17/WB/CASE474	GII	CVR- 1	IGR-2	MGF1
07/09/2017	CASE 475	35914/17	POSITIVE	POSITIVE	POL17/WB/CASE475	GII	CVR- 1	IGR-2	MGF1
07/09/2017	CASE 473	35522/17	POSITIVE	NEGATIVE	POL17/WB/CASE473	GII	CVR- 1	IGR-2	MGF1
08/09/2017	CASE 476	35918-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE476	GII	CVR- 1	IGR-2	MGF1
09/09/2017	CASE 485	36209-1/17	POSITIVE	WEAK	POL17/WB/CASE485	GII	CVR- 1	IGR-2	MGF1
09/09/2017	CASE 479	36062/17	POSITIVE	POSITIVE	POL17/WB/CASE479	GII	CVR- 1	IGR-2	MGF1
09/09/2017	CASE 480	36063/17	POSITIVE	POSITIVE	POL17/WB/CASE480	GII	CVR- 1	IGR-2	MGF1
09/09/2017	CASE 477	35918-2/17	POSITIVE	NEGATIVE	not sequenced				
09/09/2017	CASE 486	36209-2/17	POSITIVE	NEGATIVE	not sequenced				
11/09/2017	CASE 484	36414/17	POSITIVE	WEAK	POL17/WB/CASE484	GII	CVR- 1	IGR-2	MGF1
11/09/2017	CASE 487	36856-1/17	POSITIVE	WEAK	POL17/WB/CASE487	GII	CVR- 1	IGR-2	MGF1
11/09/2017	CASE 482	36492/17	POSITIVE	POSITIVE	POL17/WB/CASE482	GII	CVR- 1	IGR-2	MGF1
11/09/2017	CASE 483	36491/17	POSITIVE	POSITIVE	POL17/WB/CASE483	GII	CVR- 1	IGR-2	MGF1
12/09/2017	CASE 491	36681/17	POSITIVE	POSITIVE	POL17/WB/CASE491	GII	CVR- 1	IGR-2	MGF1
14/09/2017	CASE 488	37652-2/17	POSITIVE	POSITIVE	POL17/WB/CASE488	GII	CVR- 1	IGR-2	MGF1
14/09/2017	CASE 489	37652-1/17	POSITIVE	NEGATIVE	not sequenced				
15/09/2017	CASE 490	37932/17	POSITIVE	POSITIVE	POL17/WB/CASE490	GII	CVR- 1	IGR-2	MGF1
16/09/2017	CASE 494	37323/17	POSITIVE	POSITIVE	POL17/WB/CASE494	GII	CVR- 1	IGR-2	MGF1
16/09/2017	CASE 498	38628-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE498	GII	CVR- 1	IGR-2	MGF1
18/09/2017	CASE 492	38816/17	POSITIVE	WEAK	POL17/WB/CASE492	GII	CVR- 1	IGR-2	MGF1
18/09/2017	CASE 493	38556/17	POSITIVE	POSITIVE	POL17/WB/CASE493	GII	CVR- 1	IGR-2	MGF1
19/09/2017	CASE 496	38997-2/17	POSITIVE	NEGATIVE	not sequenced				
19/09/2017	CASE 497	38997-5/17	POSITIVE	NEGATIVE	POL17/WB/CASE497	GII	CVR- 1	IGR-2	MGF1
20/09/2017	CASE 495	38999/17	POSITIVE	NEGATIVE	POL17/WB/CASE495	GII	CVR- 1	IGR-2	MGF1
20/09/2017	CASE 499	39686/17	POSITIVE	NEGATIVE	POL17/WB/CASE497	GII	CVR- 1	IGR-2	MGF1
22/09/2017	CASE 501	39895/17	POSITIVE	POSITIVE	POL17/WB/CASE501	GII	CVR- 1	IGR-2	MGF1
23/09/2017	CASE 505	40101/17	POSITIVE	POSITIVE	POL17/WB/CASE505	GII	CVR- 1	IGR-2	MGF1
23/09/2017	CASE 406	39906/17	POSITIVE	NEGATIVE	POL17/WB/CASE406	GII	CVR- 1	IGR-2	MGF1
24/09/2017	CASE 504	40335/17	POSITIVE	NEGATIVE	POL17/WB/CASE504	GII	CVR- 1	IGR-2	MGF1
25/09/2017	CASE 503	40337/17	POSITIVE	WEAK	POL17/WB/CASE503	GII	CVR- 1	IGR-2	MGF1
25/09/2017	CASE 514	41101/17	POSITIVE	WEAK	not sequenced				
25/09/2017	CASE 507	40103/17	POSITIVE	POSITIVE	POL17/WB/CASE507	GII	CVR- 1	IGR-2	MGF1
25/09/2017	CASE 514	40527/17	POSITIVE	POSITIVE	not sequenced				
25/09/2017	CASE 514	40528/17	POSITIVE	POSITIVE	POL17/WB/CASE514	GII	CVR- 1	IGR-2	MGF1
25/09/2017	CASE 520	42287-7/17	WEAK	POSITIVE	not sequenced				
25/09/2017	CASE 500	40579/17	POSITIVE	NEGATIVE	POL17/WB/CASE500	GII	CVR- 1	IGR-2	MGF1
26/09/2017	CASE 502	40340/17	POSITIVE	POSITIVE	POL17/WB/CASE502	GII	CVR- 1	IGR-2	MGF1
26/09/2017	CASE 516	41401/17	POSITIVE	NT	not sequenced				
26/09/2017	CASE 511	41391/17	POSITIVE	NEGATIVE	not sequenced				
26/09/2017	CASE 510	41407/17	POSITIVE	NEGATIVE	POL17/WB/CASE510	GII	CVR- 1	IGR-2	MGF1
27/09/2017	CASE 509	41491/17	POSITIVE	WEAK	not sequenced				
27/09/2017	CASE 509	41487/17	POSITIVE	NEGATIVE	POL17/WB/CASE509	GII	CVR- 1	IGR-2	MGF1
27/09/2017	CASE 509	41489/17	POSITIVE	NEGATIVE	POL17/WB/CASE509	GII	CVR- 1	IGR-2	MGF1
28/09/2017	CASE 508	41795-2/17	POSITIVE	WEAK	POL17/WB/CASE508	GII	CVR- 1	IGR-2	MGF1
28/09/2017	CASE 511	41777-3/17	POSITIVE	WEAK	POL17/WB/CASE511	GII	CVR- 1	IGR-2	MGF1
28/09/2017	CASE 521	41778-2/17	POSITIVE	NT	POL17/WB/CASE521	GII	CVR- 1	IGR-2	MGF1



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OUTBREAK DATE	WILD BOAR CASE	ID ANMAL	VIRUS DETECTION	ANTIBOY DETECTION	ASFV SEQUENCED	GENOTYPING			
28/09/2017	CASE 512	41777-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE512	GII	CVR- 1	IGR-2	MGF1
28/09/2017	CASE 513	41354/17	POSITIVE	NEGATIVE	POL17/WB/CASE513	GII	CVR- 1	IGR-2	MGF1
28/09/2017	CASE 517	42154/17	POSITIVE	NEGATIVE	POL17/WB/CASE517	GII	CVR- 1	IGR-2	MGF1
29/09/2017	CASE 515	42174-1/17	POSITIVE	NEGATIVE	POL17/WB/CASE515	GII	CVR- 1	IGR-2	MGF1
01/10/2017	CASE 518	42233-2/17	POSITIVE	NEGATIVE	POL17/WB/CASE518	GII	CVR- 1	IGR-2	MGF1
02/10/2017	CASE 519	42246-7/17	WEAK	POSITIVE	not sequenced				

(1) WEAK= PCR-UPL weak (Ct>35-40), (2) WEAK = IPT weak titer < 1/80

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