



EU Reference Laboratory for ASF  
Animal Health Research Centre  
(CISA), INIA  
Ctra Algete-El Casar s/n  
28130, Valdeolmos, Spain



**European Union Reference  
Laboratory for African Swine Fever  
(ASF-EURL)**

**Centro de Investigación en Sanidad Animal (CISA-INIA/CSIC)  
Ctra. de Algete a El Casar, s/n  
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## 1. GENERAL INFORMATION

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### 1.1. ORDER FOR REAGENTS AND KITS

All the orders must be sent to:

[vdi@inia.csic.es](mailto:vdi@inia.csic.es)

With copy to

Dr. Carmina Gallardo

([eurl.asf@inia.csic.es](mailto:eurl.asf@inia.csic.es); [nieto.raquel@inia.csic.es](mailto:nieto.raquel@inia.csic.es);

[gallardo@inia.csic.es](mailto:gallardo@inia.csic.es))

**ASF European Union Reference Laboratory, EURL-ASF  
Centro de Investigación en Sanidad Animal (CISA-INIA/CSIC)**

Ctra. de Algete a El Casar, s/n  
28130 Valdeolmos (Madrid), Spain

The **conditions to order** any product or service are as follows:

It is necessary to identify all products using the catalogue description, specifying the quantity of each item required. For this item, you should send document of request: “*DESCRIPTION OF REQUEST*” or “*DESCRIPTION OF REQUEST (evaluation of ASF commercial diagnostic kits)*” including:

- ⇒ The products to be supplied with the proposed specification.
- ⇒ Full name and address of the client for delivery, including telephone contact and e-mail.
- ⇒ The billing address, with the fiscal identification number (VAT registration number). In case of countries without VAT number, please provide any other fiscal identity number in order to prepare the corresponding budget.
- ⇒ Transport costs are not included in the catalogue prices, and if necessary will be added in each budget.
- ⇒ Payment shall be made by the client immediately on receipt of the invoice.

**For some services, the amount of standard reagents and reference material requested may be limited per NRL to assure provisions to other NRLs. Requirements of shipment permissions to several countries may entail changes in reagent presentations (i.e only lyophilization) and therefore several material could be not available.**

**Biological material being shared is subject to a Biological Material Transfer Agreement (MTA) between the Parties, with particular attention to the 1992 Convention on Biological Diversity (effective 29 December 1993).**

Regarding the transport conditions for each service requested by NRLs, the cost is covered by the NRL requesting the diagnostic services and it would be dependent of market variations and budgeted at the time of order. Several services must be subject to a specific agreement between both Parties or to specific contracts through a bidding process governed by the procedures established by FAO.

⇒ To proceed with the delivery:

- As regards European Member States (MS), it is required to receive by e-mail the form “**acceptance biological material shipments from CISA**” signed by the client.
- As regards of Non EU Members States Clients, the form “**acceptance biological material shipments from CISA**” must be accompanied with **all necessary import licences and approvals** or other consents (including import documents for products classified as live and infectious as may be required to enable the products to be imported into the client's country).

## 1.2. PAYMENT

The price payable by the client and described in the product list is the price prevailing at the date of despatch.

- I. The budget will be sent to the customer by e-mail. Once accepted (signed and stamped), it will be re-sent to us by ordinary mail to the following address:

[vdi@inia.csic.es](mailto:vdi@inia.csic.es)  
with copy to  
[eurl.asf@inia.csic.es](mailto:eurl.asf@inia.csic.es)

Besides, we will need the document **acceptance biological material shipments from CISA** dully signed and stamped. For non EU countries the pertinent import permit.

- II. Once we receive the accepted budget and the acceptance form (and the import permit, if needed), we will send the reagents. Once the customer receive the reagent we will proceed with the invoice including the detailed instructions for payment.

**Payment should be made within 30 days of the invoice date.** Please, include the invoice number as reference code in order to allow us to identify the income.

## 2. PRICE LIST: REAGENTS

Transport costs are not included in the catalogue prices, and will be added to each budget.

### 2.1. ASF REFERENCE REAGENTS

ASF REFERENCE REAGENTS FOR ASF-WOAH-ELISA						
Code	Product Description	Price (€)	Presentation		Volume/ Quantity	Determinations*
			Frozen	Lyophilised		
ASF-CP	ASF POSITIVE REFERENCE SERUM	178,04		√	1 ml	8,000
		89,10		√	0,5 ml	4,000
ASF-CN	ASF NEGATIVE REFERENCE SERUM	68,11		√	1 ml	8,000
		34,10		√	0,5 ml	4,000
ASF-CL	ASF LIMIT REFERENCE SERUM	136,74		√	1 ml	8,000
		68,97		√	0,5 ml	4,000
ASFV-Ag	ASFV SEMIPURIFIED ANTIGEN	723,00		√	0.5 ml	4,000

ASF REFERENCE REAGENTS FOR ASF-WOAH-IB						
Code	Product Description	Price (€)	Presentation		Volume/ Quantity	Determinations*
			Frozen	Lyophilised		
ASF-CP	ASF POSITIVE REFERENCE SERUM	178,04		√	1 ml	50
		89,10		√	0.5 ml	25
ASF-CN	ASF NEGATIVE REFERENCE SERUM	68,11		√	1 ml	50
		34,10		√	0.5 ml	25
ASF-IB	ASF IMMUNOBLOTTING STRIPS	7,80			1 strip	1

\*The number of determinations is referred taking into consideration the working dilutions according are described in the ASF Chapter 3.9.1 of "Manual of Diagnostic Tests and Vaccines for Terrestrial Animals", edition, 2021. World Organisation for Animal Health (WOAH, 2021) [\[\]](#) and in the ASF-URL web page [[https://asf-referencelab.info/asf/images/ficherosasf/PROTOCOLOS-EN/3.09.01\\_ASF.pdf](https://asf-referencelab.info/asf/images/ficherosasf/PROTOCOLOS-EN/3.09.01_ASF.pdf)]

ASF REFERENCE REAGENTS FOR ASF IPT						
Code	Product Description	Price (€)	Presentation		Volume/ Quantity	
			Frozen	Lyophilised		
ASF-CP	ASF POSITIVE REFERENCE SERUM	89,10		√	0.5 ml	
ASF-CL	ASF LIMIT REFERENCE SERUM	68,97		√	0.5 ml	
ASF-CN	ASF NEGATIVE REFERENCE SERUM	34,10		√	0.5 ml	
ASFV-REF (E70MS-BA71VR)	ASFV ADAPTED VERO OR MS REFERENCE ISOLATE (p72 GENOTYPE I)	98,77	√		1 ml	
ASFV-IPT	COATED 96-WELL PLATES FIXED WITH ASFV ADAPTED ISOLATE (p72 GENOTYPE I)	166,27	√		1 Plate	

### ASF REFERENCE REAGENTS FOR ASF VIRUS/GENOME DETECTION

Code	Product Description	Price (€)	Presentation		Volume/ Quantity
			Frozen	Lyophilised	
ASF-ASFV ISOLATES	ASF REFERENCE VIRAL ISOLATES	98,77	√		1 ml
ASFV-DNAs	ASFV REFERENCE DNAs	68,34	√		100 µl

## 2.2. MATERIAL AND REAGENTS PROVIDED BY CISA-INIA/CSIC FOR ASF DIAGNOSIS

CODE	ASF DIAGNOSTIC TEST	REAGENTS INCLUDED	DETERMINATIONS* (Nº)	PRICE (€)
ASF-WOAH-ELISA	WOAH-ELISA FOR ASF ANTIBODY DETECTION	<ul style="list-style-type: none"> <li>ASF-Ag 0,5 ml</li> <li>ASF-CP 1 ml</li> <li>ASF-CL 1 ml</li> <li>ASF-CN 1 ml</li> <li>HRP labelled Protein A 1 mg</li> <li>ELISA plates 120 plates</li> </ul>	8,000	1.396,34
ASF-WOAH-IB	IMMUNOBLOTTING FOR ASF ANTIBODY DETECTION	<ul style="list-style-type: none"> <li>ASF-IB (60 strips)</li> <li>ASF-CP 1 ml</li> <li>ASF-CL 1 ml</li> <li>ASF-CN 1 ml</li> <li>HRP labelled Protein A 1 mg</li> </ul>	50	783,18
ASF-URL-IPT	INDIRECT IMMUNOPEROXIDASE TEST FOR ASF ANTIBODY DETECTION	<ul style="list-style-type: none"> <li>ASFV- IPT 3 plates</li> <li>ASF-CP 25 µl</li> <li>ASF-CL 25 µl</li> <li>ASF-CN 25 µl</li> <li>HRP labelled Protein A 1 mg</li> </ul>	264	739,59

\*The number of determinations is referred taking into consideration the working dilutions according are described in the ASF Chapter 3.9.1 of "Manual of Diagnostic Tests and Vaccines for Terrestrial Animals", edition, 2021. World Organisation for Animal Health (WOAH, 2021) [1] and in the ASF-URL web page [[https://asf-referencelab.info/asf/images/ficherosasf/PROTOCOLOS-EN/3.09.01\\_ASF.pdf](https://asf-referencelab.info/asf/images/ficherosasf/PROTOCOLOS-EN/3.09.01_ASF.pdf)].

## 2.3. REFERENCE MATERIAL FOR VALIDATION AND INTERNAL VERIFICATION OF ASF DIAGNOSTIC TECHNIQUES IN NATIONAL REFERENCE LABORATORIES

ASF REFERENCE PANEL OF SAMPLES					
Code	Product Description*	Price (€)	Presentation		Volume/ Units
			Frozen	Lyophilised	
ASF-Ref-1	SERUM samples for the evaluation, validation and internal verification of ASF ANTIBODY detection techniques	1.424,51		√	1 ml/10 units
ASF-Ref-2	TISSUE AND SERUM samples for the evaluation, validation and internal verification of ASF-PCR techniques.	1.509,56		√	1 ml/16 units
ASF-Ref-3	ASFV DNAs for the evaluation, validation and internal verification of ASF-PCR techniques	1.486,64		√	100 µl/21units

\*All reference material has been *inactivated* by heat treatment at 56°C for 70 minutes followed by lyophilization.

## 3. AFRICAN SWINE FEVER: DIAGNOSTIC SERVICE

### 3.1. SUBMISSION OF SPECIMENS

For a reliable diagnosis of African swine fever, it is essential to select the right samples to be sent at the laboratory and prepare the shipment in appropriate conditions. **There is not a good diagnosis if samples are not in good conditions.**

#### 3.1.1. Target samples for African swine fever

##### For ASF antibody detection using ELISA plus confirmatory techniques:

**Sera:** Draw whole blood collected using sterile tubes without anticoagulant.  
*Minimum amount recommended: 500 µl.*

##### For ASF virus detection using PCR and virus isolation:

**Sera:** Draw whole blood collected using sterile tubes without anticoagulant.  
*Minimum amount recommended: 1 ml.*

**Blood:** Draw whole blood collected using sterile tubes with anticoagulant (EDTA). *Minimum amount recommended: 1 ml.*

**Porcine organs without formalin** such as spleen, lung, kidney, heart, tonsils, and lymph nodes (mesenteric, retropharyngeal, renal, gastro-hepatic, etc).  
*Minimum amount recommended: 5gr.*



**Organ samples should be obtained during the necropsy of the animal. Blood can be taken out via jugular vein puncture, the inferior vena cava, or the auricular veins (pigs), or during the necropsy.**

### **3.1.2. Sampling materials required**

- Containers with hermetically sealable lids, preferable plastic flask. This flask should be used to keep the organs.
- Sterile tubes: some without anticoagulant others with EDTA. Some should be vacutainers and others not.
- Syringes of 10-20 ml. Different sizes of needles that fit the syringe and appropriate for the size of the pig to be sampled and the sampling site.
- Knife, scalpel and scissors to take the organ samples.
- Hermetically sealable flasks for storage of organ sample containers and blood tubes from each animal. These flasks should be clearly labeled.
- Cooler with ice packs or insulated box.
- Dry ice (when frozen sample is required).
- Labels and waterproof markers.

### **2.1.3. Shipping conditions**

Samples should arrive at **INIA-CISA/CSIC as soon as possible and safely**, to avoid their deterioration, **avoiding** potential infection of other animals or contamination during transportation as well as avoiding contamination of samples themselves. Specimens must be delivered with adequate amounts of ice in the parcel to prevent deterioration. When delivery setup is delayed beyond 48 hours, samples should be **stored in liquid nitrogen or at -70°C**.

The specimens should be shipped in accordance with **IATA Packing Instruction 650 as it is described below**.

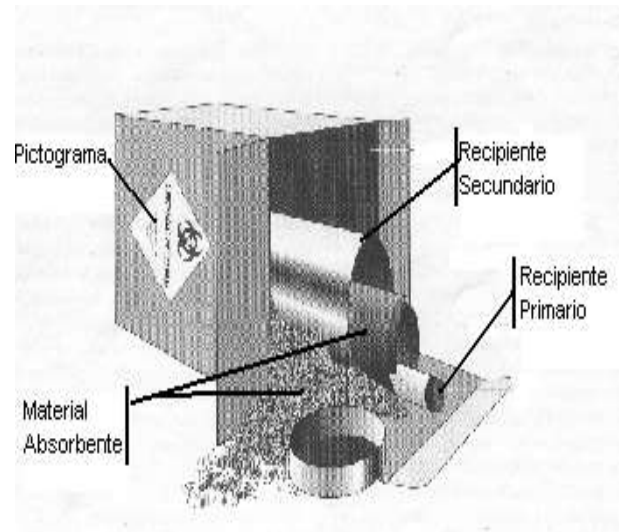
Samples should be shipped in water resistant, sterile containers (these should be the primary containers). It is essential to clearly mark each container in order to be able to clearly identify the animals from which the sample was taken. The lid of each container and the buffer of each tube should be sealed with adhesive tape or Parafilm.



These primary containers should be sealed and then packed individually in shock absorbent material. All of these containers should be placed in a second hermetically sealed water resistant container. The second container can be plastic or metal. Absorbent material should be placed in the interior of the second container in order to absorb any possible leakage from containers or tubes.

**Note: Diagram labels: Upper left: Pictograma, Upper right: Secondary container**

**Lower Left: Absorbent Material, Lower Right: Primary Container**



- Samples that must be shipped at 4 °C : These samples should be packed as indicated above. They should be shipped with refrigerants (in enough number of them to maintain the cool temperature) within thermally insulated robust boxes. Preferably these boxes should be packed within other shock resistant boxes.
- Samples that must be shipped frozen (-20 °C or -70 °C): These materials should be packaged according to the above description, by adding enough dry ice to the thermally insulated box to maintain the temperature. It is important to ensure that the second container (described above) is secured within the centre of the box because as the dry ice decomposes the container can become loose and damaged. The carbon dioxide resulting from the decomposition of the dry ice lowers the pH and deactivates the virus; therefore it is absolutely necessary that all the containers be hermetically sealed. **Never freeze whole blood or serum that contains coagulant.**

### 3.1.4. Labelling

On the outside of the box the following identification should be placed:

1. Label reading 'biological material'.
2. Label reading 'infectious material for animals', if applicable.
3. Label reading 'dry ice' (if applicable).
4. Label reading 'maintain at 4' or 'at -70 °C'.
5. Full name and address of sender.
6. Full name and recipient addresses.

## Dr. Carmina Gallardo

### Centro de Investigación en Sanidad Animal (CISA-INIA/CSIC) ASF European Union Reference Laboratory, EURL-ASF

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**SUBMISSION FORM MUST BE INCLUDED WITHIN THE PACKAGE OR SENT BY E-MAIL TO** the EURL e-mail ([eurl.asf@inia.csic.es](mailto:eurl.asf@inia.csic.es)) with copy to Dr. Carmina Gallardo ([gallardo@inia.csic.es](mailto:gallardo@inia.csic.es)) and Dr. Raquel Nieto ([nieto.raquel@inia.csic.es](mailto:nieto.raquel@inia.csic.es)).

The **ASF submission form** is available on the website <http://asf-referencelab.info/asf/> or requesting by email to the ASF reference laboratory department ([eurl.asf@inia.csic.es](mailto:eurl.asf@inia.csic.es)). If the general submission form is not available, the specimens must be accompanied by a covering letter. This letter should include relevant information concerning the owner, name and district of the farm, animal(s) involved, history, symptoms of illness and postmortem lesions. Test(s) required must be indicated. **It is better to arrange the shipment with a “door to door” service courier that will ensure delivery directly to the CISA Centre. The destination laboratory should be informed of the shipment by telephone or fax. It should have detailed information and approximate date and time of arrival. If material is sent by air, it should be given the flight number and the airway bill number. The information should be sent by mail to: [eurl.asf@inia.csic.es](mailto:eurl.asf@inia.csic.es); and [osb@inia.csic.es](mailto:osb@inia.csic.es).**

### 3.2. OTHER ASF RELATED SERVICES

SERVICE DESCRIPTION		PRICE(€)
Evaluation of ASF commercial diagnostic kits	STEP 1. Evaluation of ASF diagnostic kits using experimental samples/Assessment report	2.778,45
	STEP 2. Validation of ASF diagnostic kits using field samples/Validation report	5.973,99
	STEP 3. Verification of ASF diagnostic kits/Verification report	1.132,49
	<b>TOTAL PRICE</b>	<b>9.884,93</b>
Evaluations of the absence of ASFV load in commercial material/Evaluation report		2,334.88