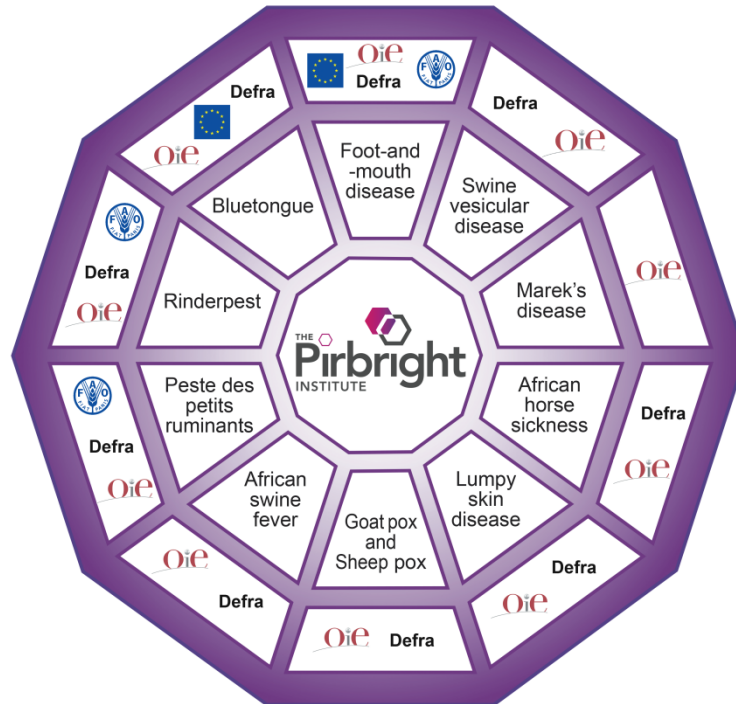







## Reference Laboratories at The Pirbright Institute



	WRL = World reference laboratory of FAO
	RRL = Regional reference laboratory of OIE
	EUURL = Community reference laboratory of EU
	Defra = UK reference laboratory
	

## Diagnostic Services Price List

Tel: +44 (0) 1483 232441  
 Fax: +44 (0) 1483 232621

[Reference Laboratories](#)  
[Incoming.Samples@pirbright.ac.uk](mailto:Incoming.Samples@pirbright.ac.uk)

May 2016

# REFERENCE LABORATORY TESTING

The Pirbright Institute carries out work on animal virus diseases exotic to the United Kingdom. Many of the staff working in The Pirbright Institute are international experts recognised by OIE, FAO, the EU and IAEA.

## **Pirbright is the designated**

### **FAO World Reference Laboratory for:**

*Foot-and-Mouth Disease  
Ruminant Morbilliviruses*

### **EU Reference Laboratory for:**

*Bluetongue  
Swine Vesicular Disease  
Foot-and-Mouth Disease*

### **OIE Reference Laboratory for:**

*Foot-and-Mouth Disease  
Swine Vesicular Disease  
African Swine Fever  
Bluetongue  
Rinderpest  
Peste des Petits Ruminants  
African Horse Sickness  
Capripox*

## **Availability of diagnostic services**

The laboratory offers an international diagnostic service for foot-and-mouth disease, swine vesicular disease, rinderpest, peste des petits ruminants, African swine fever, bluetongue, African horse sickness, sheep and goat pox and lumpy skin disease.

A free service for analysing samples from livestock suspected to be infected with the above-mentioned viruses is available for up to 50 samples per country per year and testing is carried out on behalf of the national regulatory authority, to whom results will be copied. OIE / FAO will also be informed. Results will be provided as soon as is practicably possible. Senders should be aware that samples will be processed subject to laboratory workload and priority of submission. There is no cost for the testing but the submitter is responsible for the cost for shipping and customs clearance, which may be invoiced to you subsequently.

Samples, virus isolates and deduced characteristics of the samples, such as genetic and antigenic data may be passed to others in order to facilitate international disease control and for the purpose of research into the development of improved disease control capabilities.

## COMMERCIAL DIAGNOSTIC SERVICES

The Pirbright Institute offers diagnostic services for:

### **Non-vesicular diseases (performed in the Non vesicular reference laboratory)**

1. African horse sickness
2. African swine fever
3. Bluetongue
4. Capripox viruses (goat pox, sheep pox and lumpy skin disease)
5. Epizootic haemorrhagic disease virus
6. Peste des petits ruminants

### **Vesicular diseases (performed in the Vesicular Disease Reference Laboratory)**

1. Foot and mouth disease
2. Swine vesicular disease
3. Vesicular stomatitis
4. Vesicular exanthema of swine

## SAMPLE SUBMISSION

### Samples from overseas

Samples dispatched from overseas must follow guidelines given on the [website](#). Before dispatch, the shipment details must be agreed with The Pirbright Institute and a [sample submission form](#) must be completed and included in the shipment.

### Samples from the UK

Veterinary surgeons should follow the procedures advised by Defra when reporting the suspicion of exotic diseases. Samples submitted from within the UK may be sent by post or special courier. Notification must be given by fax, telephone or e-mail message. All samples must be accompanied by a completed [sample submission form](#).

To send samples for AHS, ASF, Bluetongue, Capripox, and PPR diagnosis to the [Non Vesicular Diseases Laboratory](#) please address consignment to:

**Attention: Non Vesicular Disease Laboratory**  
The Pirbright Institute  
Ash Road Pirbright Woking Surrey  
GU24 0NF UK

To send samples for FMD, SVD, VS and VESV diagnosis to the [Vesicular Disease Reference Laboratory for virus detection](#) please address consignment to:

**Attention: World Reference Laboratory**  
The Pirbright Institute  
Ash Road Pirbright Woking Surrey  
GU24 0NF UK

To send samples for FMD, SVD, VS to the [Vesicular Disease Reference Laboratory for serological testing](#) please address consignment to:

**Attention: Serum Assay Unit**  
The Pirbright Institute  
Ash Road Pirbright Woking Surrey  
GU24 0NF UK

## RETURNS

Samples received into the Pirbright laboratory cannot be returned to sender or forwarded on to other laboratories including APHA.

## RESULTS

Where applicable the results will be provided in the turnaround time provided in the table below. In the event of a delay with the turnaround time provided the submitter will be informed by e-mail or phone. Results will be sent by email unless otherwise requested and agreed in advance.

In the event of a positive result for a UK sample the national regulatory authority will be informed. Subsequent investigation of suspected disease cases will be undertaken by the regulatory authority and all further communication should be sought through them.

Samples, virus isolates and deduced characteristics of the samples, such as genetic and antigenic data may be passed to others in order to facilitate international disease control and for the purpose of research into the development of improved disease control capabilities.

## QUALITY

The Reference Laboratories are UKAS accredited testing laboratories N. 4025. This means that where highlighte (\*) testing is carried out to the internationally recognised ISO/IEC 17025 standard for laboratory competence, subject to third party accreditation by the United Kingdom Accreditation Service (UKAS).

# PRICES FOR DIAGNOSTIC SERVICES

## Non Vesicular Reference Laboratory

[Non Vesicular Reference Laboratory General Submission Form](#)

### African Horse Sickness

Sample for virus detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Virus (nucleic acid) Detection	real-time PCR*	66.00	44.00	22.00	5 working days
Serotype Identification	real-time PCR	<i>Price on application</i>			
Nucleotide Sequencing		<i>Price on application</i>			
EDTA blood or post mortem samples/Virus isolation	Tissue Culture*	<i>Price on application</i>			

Sample for antibody detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Antibody detection	ELISA*	66.00	44.00	22.00	5 working days
Serotype specific antibodies	SNT**	33.00 per sample per serotype			

\*\* Serum Neutralisation Test

## African Swine Fever

Sample for virus detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Virus (nucleic acid) Detection	real-time PCR*	66.00	44.00	22.00	5 working days
Antigen Detection	Antigen ELISA*	66.00	44.00	22.00	5 working days
EDTA blood or post mortem samples/Virus isolation	Haemadsorption	<i>Price on application</i>			

Sample for antibody detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Antibody detection	ELISA*	66.00	44.00	22.00	5 working days

## **Bluetongue**

Sample for virus detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Virus (nucleic acid) Detection	real-time PCR*	33.00	27.50	25.00	5 working days
Serotype identification	real-time PCR	<i>Price on application</i>			
Nucleotide sequencing		<i>Price on application</i>			
EDTA blood or post mortem samples/Virus isolation	Tissue Culture*	<i>Price on application</i>			

Sample for antibody detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 10	11+	51+	
Antibody detection	ELISA*	18.00	14.00	9.00	5 working days
Serotype specific antibodies	SNT**	33.00 per sample per serotype			

\*\* Serum Neutralisation Test

## **Epizootic Haemorrhagic Disease**

Sample for virus detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Virus (nucleic acid) Detection	real-time PCR*	66.00	44.00	22.00	5 working days
Serotype identification	real-time PCR	<i>Price on application</i>			
Nucleotide sequencing		<i>Price on application</i>			
EDTA blood or post mortem samples/Virus isolation	Tissue Culture*	<i>Price on application</i>			



Sample for antibody detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Antibody detection	ELISA*	66.00	44.00	22.00	5 working days
Serotype specific antibodies	SNT**	33.00 per sample per serotype			

\*\* Serum Neutralisation Test

### **Capripox (Goat pox, Sheep pox, Lumpy skin disease)**

Sample for virus detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Virus (nucleic acid) Detection	real-time PCR*	66.00	44.00	22.00	5 working days
Differential detection	real-time PCR	<i>Price on application</i>			
Nucleotide sequencing		<i>Price on application</i>			
Biopsy of post-mortem material	Tissue Culture	<i>Price on application</i>			

### **Peste des Petits Ruminants**

Sample for antibody detection	Test	Charge per test (£GBP)			Test turnaround time
		Up to 5	6+	21+	
Antibody detection	ELISA*	66.00	44.00	22.00	5 working days

### **Rinderpest (please contact laboratory directly)**

## Vesicular Reference Laboratory

### Virus Detection Testing Sample Submission Form

### Serological Testing Sample Submission Form

#### Foot-and-Mouth Disease

Samples for virus detection	Test	Charge per test (£GBP)	
		1-50	50+
Probangs	Tissue Culture* Antigen ELISA*	64.00	64.00
	rRT-PCR*	33.00	22.00
Other Tissues	Tissue Culture* Antigen ELISA*	<i>Price on application</i>	
	rRT-PCR*	<i>Price on application</i>	
Samples from suspected infected animals	Tissue Culture* Antigen ELISA* rRT-PCR*	<i>Free of charge for agreed diagnostic submissions</i>	<i>Price on application</i>
Sequencing	Segment of VP1 gene	355.00	

Samples for antibody detection	Test	Charge per test* (£GBP)		
		1-50	51-100	101+
Serum – Spot test	Liquid-phase Blocking ELISA*	18.00	14.00	9.00
	Solid-phase competition ELISA*	18.00	14.00	9.00
Serum – Titration	Liquid Phase Blocking ELISA	25.00	18.00	13.00
	VNT*	42.00	34.00	25.00
		Up to 40	Up to 80	81+
Serum - Titration	Cedi O ELISA*	13.00	11.00	10.00

Non-structural Protein	Charge per block batch (£GBP)				
	1-40	41-80	81-120	121-160	161-200
NSP <sup>+</sup>	395.00	490.00	585.00	677.00	772.00

<sup>+</sup> A test is defined as one sample tested against one serotype of FMDV. The testing schedule will be agreed with customer prior to samples being shipped.

### **Swine Vesicular Disease**

Samples for virus detection	Test	Charge per test (£GBP)	
		1-50	50+
Samples from suspected infected animals	Tissue Culture Antigen ELISA rRT-PCR	<i>Free of charge for agreed diagnostic submissions</i>	<i>Price on application</i>
Sequencing	Segment of VP1 gene	355.00	

Samples for antibody detection	Test	Charge per test (£GBP)		
		1-50	51-100	101+
Spot test	ELISA*	18.00	14.00	9.00
Titration	VNT	42.00	34.00	25.00

### **Vesicular Stomatitis**

Samples for virus detection	Test	Charge per test (£GBP)	
		1-50	50+
Samples from suspected infected animals	Tissue Culture Antigen ELISA rRT-PCR	<i>Free of charge for agreed diagnostic submissions</i>	<i>Price on application</i>

Samples for antibody detection	Test	Charge per serotype (£GBP)		
		1-50	51-100	101+
Serum	VNT*	42.00	34.00	25.00

## **SCREENING CELLS, SEED VIRUSES, VACCINES AND OTHER MATERIAL**

Drugs, vaccines and other material can be screened for evidence of contamination with FMD, BT, VS, SVD, EHD, PPR, AHS, or Pox Viruses. The cost of these screening tests is negotiable, depending on which tests are required.