

**PROTOCOL FOR SAMPLE SUBMISSION TO REGIONAL REFERENCE
LABORATORY FOR FMD IN SOUTH EAST ASIA
PAKCHONG, NAKHONRATCHASIMA THAILAND**

The Regional Reference Laboratory for Foot and Mouth Disease in South East Asia, Department of Livestock Development, Ministry of Agriculture and Cooperatives is take responsible for FMD diagnosis and operated as the SEA FMD reference laboratory in the region. The samples submission for diagnostic purpose are recommended to sent to Regional Reference Laboratory (RRL) , Pakchong by AIRFREIGHT ONLY. The destination airport is to SUVARNABHUMI INTERNATIONAL AIRPORT, The customs clearance process will be proceeded by the DLD officers and collected by the authorized staffs from RRL, Pakchong .

In order to achieve the bio-safety standard of samples or biological materials from oversea countries to Regional Reference Laboratory , the packaging and dispatch of samples and biological materials are required as this following.

1. Collection of sample

1.1 Epithelium/ infected tissue/vesicular fluid

The suitable or fresh samples from tongue epithelium , tissue between hoof or vesicular fluid which are collected from recently infected animal that may be obtained of sufficient virus for laboratory diagnosis by type identification using antigen capture sandwich ELISA and virus isolation method.

The specimen should be collected as minimum of 2 cm² , put tissue in strong container or bottle with screw cap then suspended in a mixture of 50% glycerin with 0.04 phosphate buffer pH 7.2-7.6. preferably with added antibiotics. There will be considerable loss of infectivity if samples are sent in buffer outside of this pH range.

1.2 Blood sample

Collection of blood sample should be collected under sterile conditions and serum part is separated by centrifugation and kept it in a screw cap vials with O-rings. Serum samples should be kept at freezing condition (-20⁰C) before dispatch to Regional Reference Laboratory.

2. Packaging

The samples must be packed in a watertight primary and secondary IATA approved containers or a strong container so that the samples arrive in good condition and do not present any hazard to persons or animals during shipment. It is essential that the contents of containers which break or leak in the transit, do not contaminate the outside layer of the parcel.

The procedure for packing of samples are recommended as this following.

1. The samples must be put a primary container (glass or plastic tubes or bottles) with screw caps and wrapped with paraffin film or adhesive tape individually in order to prevent leakage of fluid. The wrapping of bottle or primary container should be completed in clean surrounding by using effective disinfectant before proceeding further.

2. Primary container must be packed in watertight secondary packaging, which should be strong crushproof and leak-proof metal containers with absorbent cotton wool that can absorb entire contents of all primary containers.

3. The secondary packaging must be placed in outer containers which should be a foam box covered with hard box or IATA proved container.

4. Sufficient information and list of samples or materials should be enclosed in an envelop covered with plastic bag and placed between the secondary packaging and outer box.

5. The FREEZER PACK is recommended to put outside the secondary packaging to ensure that all materials are kept cool during shipment . The pre- frozen packs at -20°C is necessary to be prepared before packing samples.

6. In case of packing with dry ice, it must be put outside the secondary packaging. Please do not placed dry ice directly in the primary containers, it may break the sample tube.

3. Marking Labeling

The outer package of parcel must be clear labeled with all details as this following:

- The name and address of Institute,
- Telephone numbers
- Flight number, arrival time
- Airway bill number
- Infectious substance hazard label
- Dry ice label (if necessary)
- Others such as Perishable, fragile, keep cool or keep at -20°C etc.

3.1 Name and address :

**Department of Livestock Development
Regional Reference Laboratory for FMD in South East Asia
Pakchong, Nakhonratchasima, 30130
THAILAND
Tel: +66 44 279112, Fax: +66 44 314889**

3.2 Others marking :

The marking on the package is an essential source of information to communicate to everyone involved in the transportation process, such as

“PATHOLOGICAL MATERIAL OF NO COMMERCIAL VALUE”

“PERISHABLE” “FRAGILE” “KEEP AT 4 °C”

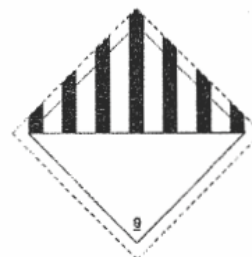
3.2 Hazard Labels :

The label must be legible and must not be covered. The label must be attached to one side of the box and not overlap.

Infectious Substance label



Miscellaneous Dangerous Goods (Dry ice)



***Diagnostic specimen
UN 3373***

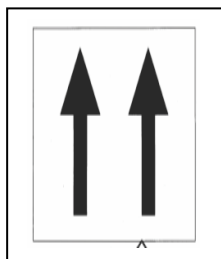


***Cargo aircraft only
Must be used for all shipment
that cannot ride on passenger aircrafts***



3.3 Oriental label

The arrow label must be used when shipment liquid samples in the container , indicates to hold the package this way up, this label must be placed on 2 sides of the package (opposite side)



4. Route and destination of the shipment

All biological materials , Diagnostic specimen or Infectious substance must be sent by AIRFREIGHT ONLY direct to SUVARNABHUMI INTERNATIONAL AIRPORT, BANGKOK ONLY before dispatch the sender must notify the Regional Reference Laboratory at Pakchong by fax (Fax No. +66 44 314889) for the details of the Airway Bill Number, flight number , time and date of arrival of the parcel or package in Bangkok, Thailand.

5. Customs clearance process

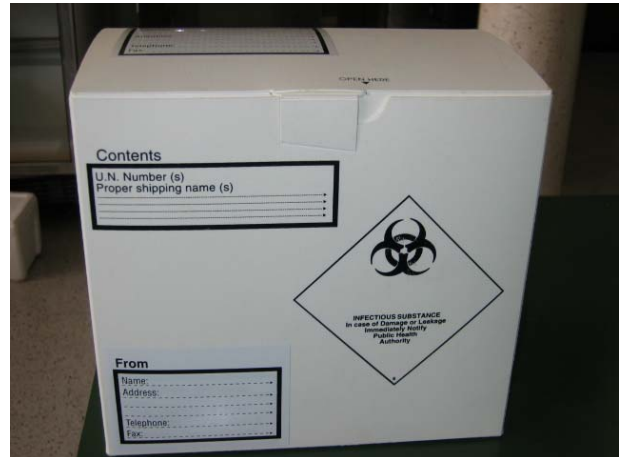
The staffs of Department of Livestock Development (DLD) and Regional Reference Laboratory will clear the parcel through the customs at the airport , then the parcel will be collected and taken to the laboratory at Pakchong, Nakhonratchasima province (180 Kilometer from SUVARNABHUMI AIRPORT) by the staff of Reference Regional Laboratory.

5. Reference

IAH, Requirement for packaging and dispatch of biological materials to Institute for Animal Health, Pirbright Laboratory, UK,

Guidance document on Addendum III The 46th Edition of AITA's Dangerous Goods Regulation

Example 1. Picture of IATA approved container for Infectious specimen



Example 2. Picture of IATA approved container for Non Infectious specimen



Example 3. An alternative method of packing with strong container is also acceptable for diagnostic reagents



FMD SAMPLE SUBMISSION FORM

F-2201-02

<p><u>Sender details</u> Country:..... Your Reference No..... Name of Institute:..... Address:..... Tel:..... fax:..... Email:.....</p>	<p><u>Owner Details</u> Owner's name..... Address:..... District/Province:..... Region:..... Country:..... Tel:Fax:.....</p>
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<u>Sample Details</u>				
Epithelium tissue <input type="checkbox"/>	Vesicle fluid <input type="checkbox"/>	Virus culture <input type="checkbox"/>	Serum <input type="checkbox"/>	Other <input type="checkbox"/>
Number of animals sampled:				
Sample Identification:				
Date collected:/..../.....		Date of dispatched:/..../.....		

<u>Outbreak details</u>											
Date first noticed:		Date reported:			Duration:.....days			Number of heard involved:			
Species	Breed	Sex	Number of animals				Age of affected animals				
			In outbreak	Affected	Dead	Slaughtered	0 - 0.6 m	0.6- 1 y	1-2 y	2-3y	> 3y
Cattle											
Buffalo											
Pig											
Sheep											
Goat											
Other											
Species	Vaccinated			Vaccination regime				Vaccine serotype	Vaccine Producer	Batch No.	
	Yes	No	Last date	4 m	6 m	1 y	Other				
Cattle											
Buffalo											
Pig											
Sheep											
Goat											
Other											
Date of previous infection- On farm/..../.....					In area...../...../.....			Serotype:			
Possible origin place, country, method of spread		Marketing <input type="checkbox"/>		Adjacent premises <input type="checkbox"/>		New stock <input type="checkbox"/>		Other <input type="checkbox"/>			
		Control measures		Complete Slaughter <input type="checkbox"/>		Quarantine Measures <input type="checkbox"/>		Vaccination <input type="checkbox"/>			
		Partial slaughter <input type="checkbox"/>									

Comments: _____

Signed: _____ Date: _____