

SAMPLE PREPARATION, SUBMISSION, AND PROCESSING AT CVL KABETE AND INTERNATIONAL REFERENCE LABS

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LABS AT CVL

- ✘ Pathology and parasitology
 - + Histology
 - + PM
 - + Helminthology
 - + Reception
- ✘ Bacteriology
 - + Media
 - + Serology

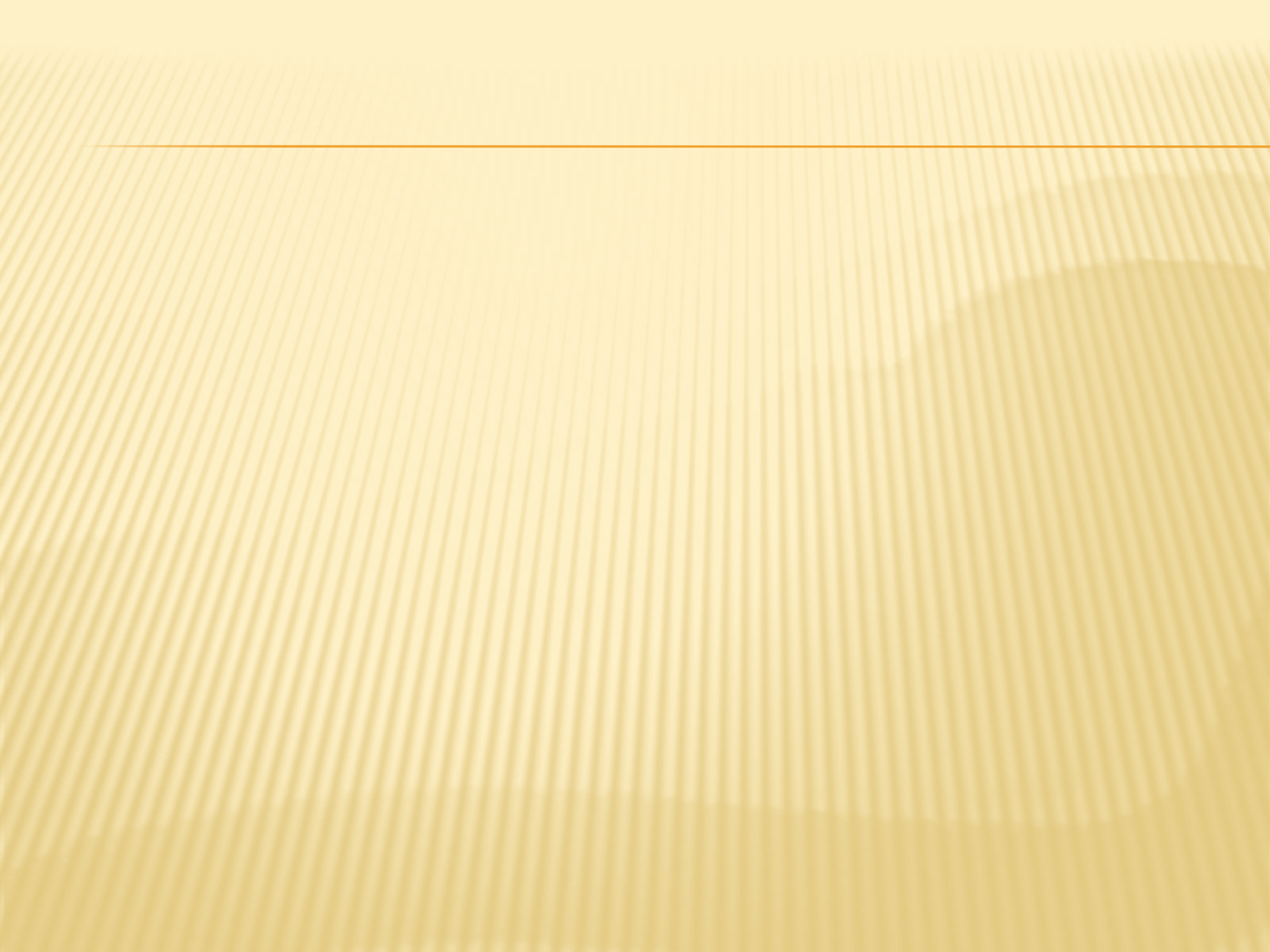
+ Mycoplasma/ELISA

+ Culture and isolation

× Virology

× Acarology

× Chemistry



TYPES OF SAMPLES

1. Carcasses
2. Body fluids
 - + Blood
 - + Serum
 - + Plasma
 - + Milk
 - + Urine
 - + Others(pus, pleural fluid, etc)
3. Organs

TYPES OF SAMPLES CONTINUED.....

4. Miscellaneous

- + Dip
- + Ectoparasites
- + Feeds
- + Feccal material

PREPARATION OF SAMPLES AND TRANSPORTATION

1. Carcasses

- + Fresh samples
- + Whole

2. Body fluids

(i) Blood

- × Collect with sterile equipment, preferably vacutainers (EDTA-PCR, Heparin-bld parasites e.g tryps)
- × Transport cool (DO NOT freeze)

PREPARATION OF SAMPLES AND TRANSPORTATION CONT.....

(ii) Serum

- + Collect sterile
- + Keep standing at room temperature(25°C)/at +4 °C in hot places
- + DO NOT freeze before separation of the sera and the blood cells
- + Decant serum and aliquot in cryovials
- + Transport cool
- + May freeze for future use

SAMPLE COLLECTION, PREPARATION AND TRANSPORTATION CONT.....

(iii) Plasma

- + Collect blood in sterile EDTA bottles
- + May leave standing at room temp' as for serum or centrifuge at 1500g for 5 mins
- + Decant the supernatant
- + Transport cool/frozen

(iv) Milk

- + Wash hands with soap and clean water
- + Wash the udder with soap and clean water

SAMPLE COLLECTION, PREPARATION AND TRANSPORTATION CONT.....

- + Disinfect the teats with mild disinfectant
- + Milk into sterile bottles with or without 3% boric acid
- + Transport cool

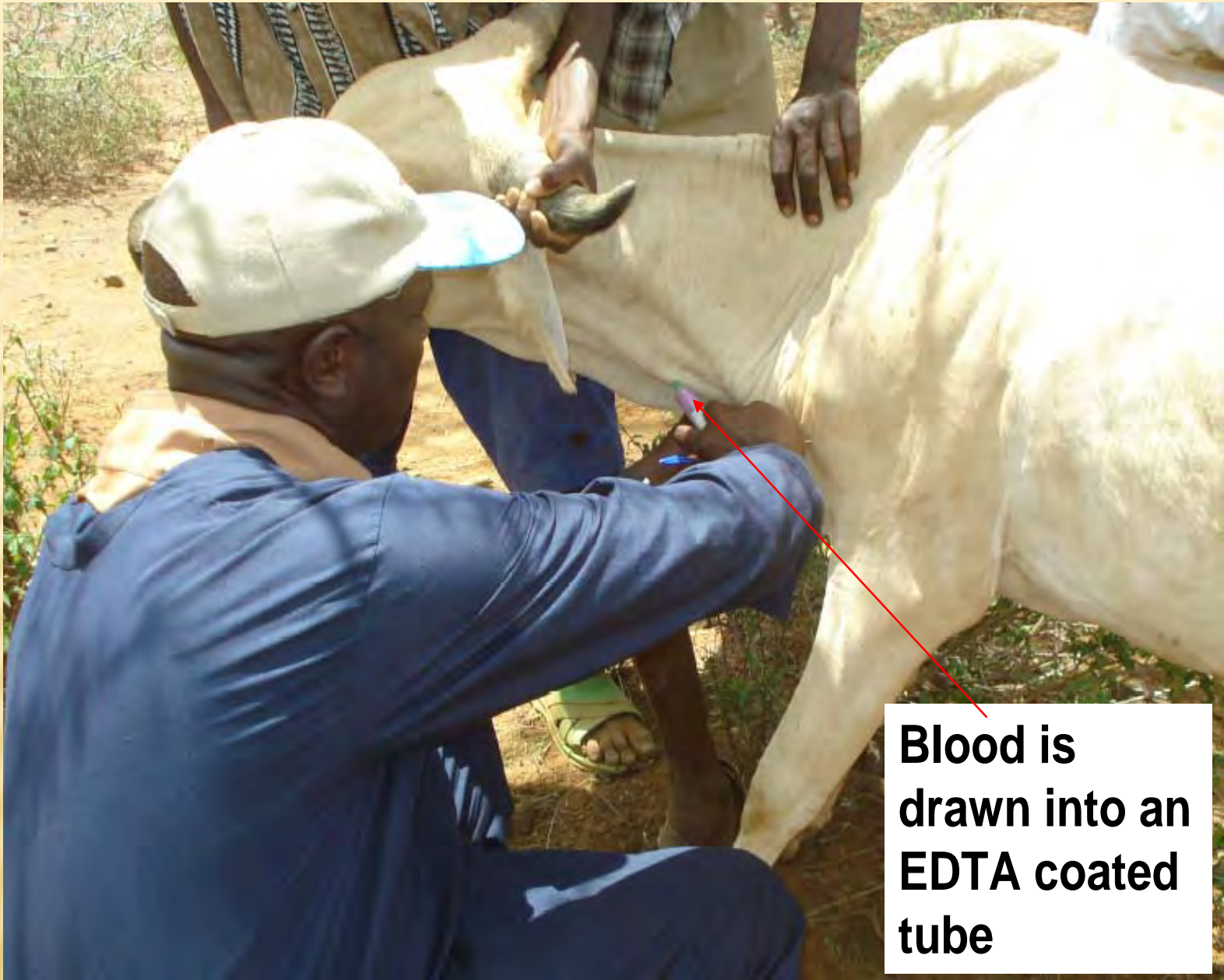
(v) Urine

- + Collect in sterile bottles
- + Transport cool

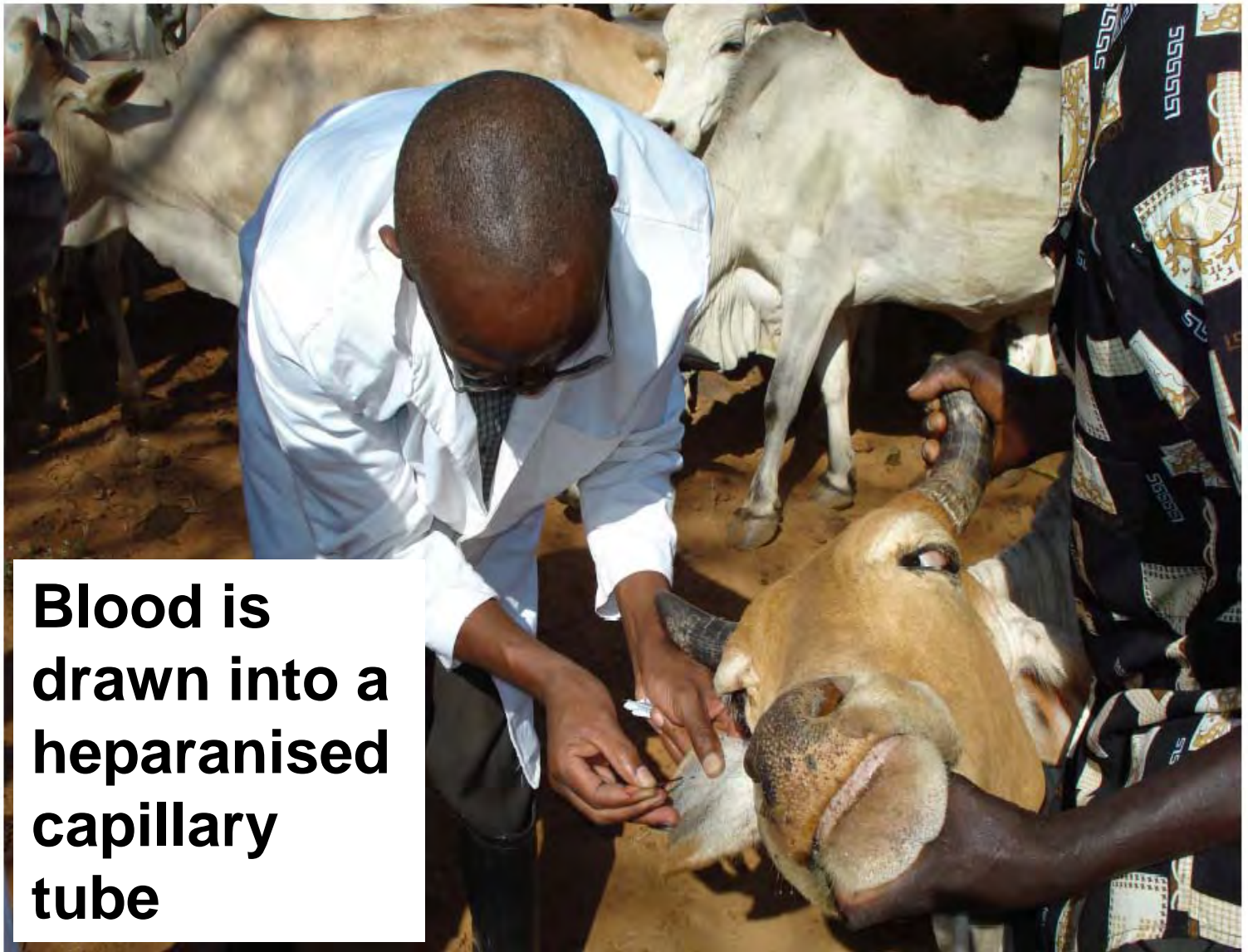
(vi) Others (pus,

VACUITAINER BOTTLE AND COOL BOX





**Blood is
drawn into an
EDTA coated
tube**



Blood is drawn into a heparanised capillary tube

SAMPLE COLLECTION, PREPARATION AND TRANSPORTATION CONT.....

3. Organs

- + Submission of organs not encouraged unless under special conditions – by a veterinary professional e.g meat inspectors, head for rabies diagnosis
- + Should be transmitted frozen

5. Miscellaneous

- (i) Dip (at least 120mls)
- (ii) Ectoparasites (ticks, flies, mites, mange)

(a) Ticks

- + Engorged the best
- + Put in dry universal bottles
- + Transport cool

(b) Flies and mites

- + Transport cool in dry universal bottles
- + For mites you have to shave the affected area and include part of epidermis

LABELLING OF THE SAMPLES

- ✘ All samples must be labelled properly and have accompanying individual sample or animal form with details
- ✘ Details include county of origin, specific location, spp, sex and age
- ✘ May include GIS coordinates if available
- ✘ Code the labeling for ease of identification e.g
KJD/LTK/BOV/F<1 i.e
KAJIADO/LOITOKITOK/BOVINE/FEMALE < 2YRS

SUBMISSION AT CVL

- ✘ All samples are submitted at Pathology section reception
- ✘ Fill a submission card form giving the details of the owner, submitter and type of specimen among other details must be filled before further processing of the specimen(s)

SUBMISSION FORM/CARD

x ORIGINAL
x MINISTRY OF LIVESTOCK DEVELOPMENT VETERINARY DIVISION
x
x

LABORATORY SPECIMEN REPORT FORM

FOR LABORATORY USE ONLY

x Date Received
x Annual report
x Specimen No.....
x
x

x Submitted by:
x

x Address:
x

x Tel:

x Owners Name:
x

x Address
x

x
x Location of farm:
x

x
x
x

INTERLAB FORM

x MINISTRY OF LIVESTOCK DEVELOPMENT
x VETERINARY RESEARCH LABORATORY
x VETERINARY SERVICES DIVISION
x PRIVATE BAG 00625 KANGEMI.

x **INTERNAL LABORATORY SPECIMEN REPORT FORM**

x DATE:-----

x OFFICER ON DUTY. Dr

x PATHOLOGY LAB. NO. SPECIES

x OWNER'S NAME:-----

x ADDRESS: BOX:-----

x LOCATION:-----COUNTY:-----

x DESCRIPTION OF SPECIMENS:

x TEST(S) REQUIRED:

x DATE OF DISPATCH: SECTION:

x SIGNATURE OF OFFICER
x SENDING SAMPLE(S)

x SECTION OF DESTINATION:
x

INTERLAB FORM CONT.....

DATE OF RECEIPT OF SPECIMEN:

No.

Specimen Type

Individual identification

RESULTS

1

2

3

4

5

If space not enough please continue overleaf. Specimens **MUST** bear individual identification

DATE REPORTED:

Analysts.....

Date.....

Officer in charge.....

Date.....

INTERNATIONAL SAMPLES

- ✘ Get permit with specific requirements from the host country
- ✘ Once conditions are met write to the DVS to obtain NO OBJECTION LETTER
- ✘ May require to attach health certificate or other proof as required by the host country

ACKNOWLEDGEMENTS

- ✘ CVL staff
- ✘ Audience

THANK YOU!

