

**COLLECTION, PRESERVATION
AND
DESPATCH OF MATERIALS
FOR LAB DIAGNOSIS
(Part I)**

TYPES OF TESTS

BACTERIOLOGICAL

MYCOLOGICAL

VIROLOGICAL

SEROLOGICAL

PARASITOLOGICAL

HISTOPATHOLOGICAL

TOXICOLOGICAL

SAMPLE IDENTIFICATION

OWNER'S NAME

IDENTIFICATION OF ANIMAL

TYPE OF SAMPLE

DATE & TIME OF COLLECTION

PRESERVATIVE USED

HISTORY

CLINICAL SIGNS

DISEASE SUSPECTED

EXAMINATION REQUIRED

TYPES OF SAMPLE

BLOOD

FROM JUGULAR VEIN IN LIVE ANIMALS

FROM RT AURICLE / VENTRICLE IN PM CASES

**FOR CHEMICAL ANALYSIS ANTICOAGULENTS SHOULD BE
ADDED**

**FOR BACTERIOLOGICAL EXAMINATION ASEPTIC
PRECAUTIONS NEEDED**

MUST BE SENT IN A REFRIGERATED CONDITION

SERUM

HEMOLYSIS SHOULD BE AVOIDED

**SERUM CAN BE STORED FOR 1 YEAR AT -
20°C AND BELOW ,AT - 80°C INDEFINITELY.**

**SHOULD ALWAYS BE TRANSPORTED IN
REFRIGERATION.**

**PRESERVATIVE USED 1:10,000 MERTHIOLATE
OR 10% CARBOLIC ACID.**

BLOOD SMEARS

USE CLEAN, GREASE FREE AND DRY SLIDES FOR MAKING SMEARS.

SMEARS SHOULD BE MADE FROM FRESHLY DRAWN BLOOD WITHOUT ANTICOAGULANT DRY RAPIDLY BY WAVING IN AIR OR BY USING FAN. DO NOT USE HEAT FOR DRYING.

SHOULD BE STAINED WITHIN 1 HOUR FOR BEST RESULTS.

CAN BE PRESERVED BY FIXING WITH METHANOL

FAECAL SAMPLE

SAMPLES SHOULD BE COLLECTED EITHER DIRECTLY FROM THE RECTUM OR FRESHLY VOIDED.

FOR PARASITOLOGICAL EXAMINATION SAMPLE MAY BE SENT IN 10% FORMALINE.

FOR TOXICOLOGICAL / VIROLOGICAL / BACTREIOLOGICAL STUDY NO PRESERVATIVE IS NEEDED. SEND UNDER REFRIGERATION.

SKIN SCRAPPINGS

DISINFECT THE AREA WITH SPIRIT OR 70% ALCOHOL.

TAKE DEEP SCRAPPINGS FROM MARGINS OF LESIONS.

SAMPLE CAN BE SENT IN NON-ABSORBANT PAPER OR POLYTHENE BAG.

REFRIGERATION NOT REQUIRED FOR PARASITOLOGICAL EXAMINATION.

MILK

**MILK MUST BE COLLECTED BEFORE
INFUSION OF ANTIBIOTICS.**

**QUARTER MUST BE SWABED WITH SPIRIT
OR 70% ALCOHOL.**

**DISCARD FIRST FEW STRIPPINGS AND
COLLECT 15-20 ML IN STERILE
CONTAINERS.**

SEND UNDER REFRIGERATION.

URINE

**URINE IS COLLECTED BY CATHETOR OR
MID- SECTION OF URINATION.**

SEND UNDER REFRIGERATION.

**CAMPHOR, THYMOL, FORMALINE, BORIC-
ACID & CHLOROFORM USED AS
PRESERVATIVE.**

**FOR BACTERIAL & VIRAL EXAMINATIONS NO
PRESERVATIVE IS NEEDED.**

PUS, EXUDATE

SPUTUM, UTERINE DISCHARGE

SPECIMEN SHOULD BE COLLECTED WITH STERILE COTTON SWAB OR IN STERILE TEST TUBE UNDER REFRIGERATION.

STOMACH & INTESTINES / CONTENTS

TWO ENDS OF SUITABLE PORTION TIED WITH THREAD & REMOVED .

SHOULD BE DISPATCHED IN TIGHT SCREW CAPPED BOTTLES UNDER REFRIGERATION.

IMPRESSION SMEARS

SHOULD BE PREPARED AT THE TIME OF POSTMORTEM.

CUT SURFACE OF THE TISSUE SHOULD BE WIPED WITH FILTER / ABSORBENT PAPER BEFORE MAKING SMEARS.

DRY WELL IN AIR .WRAP IN PAPER & DESPATCH .

HISTOPATHOLOGY

AVOID AUTOLYSIS BY IMMEDIATELY COLLECTING THE SPECIMEN AFTER DEATH OR SACRIFICE OF ANIMAL.

AVOID FRAGMENTATION OF TISSUE BY USING SHARP KNIFE OR SCISSORS.

SAMPLES 0.5-1" THICK SHOULD BE COLLECTED FROM ORGANS SHOWING GROSS LESIONS FROM THE MARGINS OF THE LESION. SHOULD BE PRESERVED IN 10% FORMALIN. COLLECTED IN WIDE – MOUTH CONTAINERS.

TOXICOLOGY

SPECIMENS SHOULD BE PLACED IN LEAKPROOF JARS AND CONTAINERS WITHOUT ANY PRESERVATIVE.

REFRIGERATION IN TRANSIT IS NECESSARY.

SPECIFY THE TOXICITY SUSPECTED.

THANKS