



## Test Directory - 2022

### HAEMATOLOGY + BIOCHEMISTRY PROFILES

*Specimen: EDTA or lithium-heparin whole blood, serum, direct blood smear*

**Pre-Anaesthetic Profile** - Includes: CBC & Pre-Anaesthetic Biochemistry

**Comprehensive Health Profiles** - Includes CBC & MBA

**Equine Inflammatory Profile** - Includes: Fibrinogen, Serum Iron, SAA

### HAEMATOLOGY

*Specimen: EDTA or lithium-heparin whole blood, direct blood smear*

#### Complete Blood Count (CBC)

**Cross Match** - Includes: Major and Minor crossmatch for one donor animal per recipient.

### BIOCHEMISTRY

*Specimen: serum or lithium-heparin plasma. Includes plasma glucose if fluoride oxalate tube submitted*

**Full biochemistry panel** – tailored as per species (Multiple Biochemical Analysis – MBA)

**1 to 6 Biochemistry analytes** (excludes SAA)

**Serum Amyloid A (SAA)** – equine only

**Bile Acids** – single or pre & post

### URINE ANALYSIS

*Specimen: urine in a sterile specimen jar*

**Urine Analysis** includes UP/UC and sediment exam

**Urine protein/urine creatinine (UP/UC) only**

**Fractional Excretion**

### ENDOCRINE ANALYSIS

*Specimen: Contact laboratory for collection details*

#### Insulin (EQUINE ONLY)

Single / baseline or Oral Glucose Tolerance (2 x insulin + glucose) or Oral Glucose Tolerance (3 x insulin + glucose)

#### Cortisol

Single / baseline or ACTH Stimulation (2x cortisol) or Dexamethasone Suppression (3 x cortisol)

#### ACTH

Single/baseline (endogenous) or Thyrotropin Releasing Hormone (TRH) Stimulation (ACTH x 2)

### CYTOLOGY

*All cytology samples are outsourced. Alternatively, VLS can perform fluid analysis, as applicable, and prepare slides to be returned to the clinic.*

#### Fine Needle Aspirate/Impression Smears

#### BAL and CSF Fluid Analysis

#### Pericardial/Pleural/Peritoneal/Synovial Fluid Analysis

**Fluid Analysis Only** - Includes: cell counts, protein, neutrophil %.

### MICROBIOLOGY

#### Aerobic culture & sensitivity

#### Aerobic C&S + Anaerobic culture

#### Aerobic C&S + Anaerobic bacterial culture + Fungal culture

#### Salmonella spp. only culture (per sample)

#### Dermatophyte culture & microscopy

#### Fungal culture

#### Mastitis culture & sensitivity

**Blood culture** - Blood to be submitted in blood culture enrichment bottles

#### Equine Pre-mating

**Calf Scours** (Rainbow test: Rotavirus, Coronavirus, E. coli, Cryptosporidium parvum)

## PARASITOLOGY

*Specimen: Faeces*

**Faecal Float** (Small animals)

**Faecal Egg Count** (Livestock/horses)

**Giardia**

**Lungworm - Baermann Technique**

**Calf Scours** (Rainbow test: Rotavirus, Coronavirus, E. coli, Cryptosporidium parvum)

## HISTOPATHOLOGY

*Specimen: Fresh tissue or tissue fixed in 10% Neutral Buffered Formalin.*

**1 or more Tissues**

**Whole Organ (e.g, brain, eye, entire spleen, limb amputations)**

## DIGITAL SLIDE SCANNING

**UQ Research slides** - Scanned by VLS staff; must provide a hard drive for transfer of scanned slides or access to RDM

**UQ Researchers** - Must be trained by VLS staff first (book through VLS – 8am to 4pm Monday-Friday)

## IMMUNOHISTOCHEMISTRY (IHC)

**Diagnostic/Non UQ Researcher/UQ Internal research**

## NECROPSIES

*Cadavers should be refrigerated at 4° C but not frozen (if possible). Cadavers must be submitted by a veterinarian and the reports are sent to the veterinarian/clinic (not a public service)*

### Paid Post Mortem

*Performed by a pathologist (supervising a resident). A report will be issued 4 - 6 weeks from the date of necropsy.*

**Wildlife (state owned/conservation program)**

**Avian/Reptile (<1kg)**

**Very Small animal (<1kg e.g., Pocket pet)**

**Small animal (<20kg puppy/kitten –litter up to 3 animals)**

**Small animal (<50kg adult dog/cat)**

**Medium animal (<200kg pig/calf/small ruminant- herd up to 3 animals)**

**Large Animal (>200kg production ox/adult pig),**

**Large Animal (>200kg horse) \***

**Insurance horse or foal\***

**Large animal neurological supplement (horse, cow, adult pig)**

**Legal consultancies/Expert 2<sup>nd</sup> opinion**

*\*A current Hendra vaccination certificate or Hendra exclusion results must accompany all equine submissions for necropsy.*

**Teaching Post Mortem** - *contact laboratory for further information*

*Performed by students, under pathologist supervision, not suitable for legal or insurance cases, results are not guaranteed  
Reports, when available, are prepared by students.*

**NOTE:** *If the owner has requested private cremation and there are no classes scheduled, the post-mortem will be performed by the pathology residents to ensure the body is made available for cremation as soon as practicable.*

## Turnaround times

- **Clinical Pathology:** within 24 hours, but typically on the same day unless received late in the day. Urgent requests are usually reported within two hours.
- **Parasitology:** within 24 hours for single samples.
- **Microbiology:** tests are set up on the day of receipt. Although interim reports will be issued daily whenever possible, bacterial culture generally takes two days and may take up to seven days. Fungal cultures may take four weeks or longer.
- **Histology** samples (biopsies) are processed overnight, usually on the day of receipt. Reports are usually issued within 48 hrs. A delay of up to 48 hrs may result if samples are improperly fixed. Samples containing calcium (e.g., bone, teeth) will be delayed by the decalcification process.
- **Paid necropsies:** Reports are issued 4 - 6 weeks after necropsy date
- **Teaching necropsies:** Reports can take up to 8 weeks after necropsy date and is dependent on class schedules.

VLS reserves the right to refuse to process samples that are not submitted in an appropriate manner. You are welcome to submit requests for QML and IDEXX on a VLS Request Form. Your sample will be forwarded with the next courier. A handling fee will apply.