Veterinary Laboratory Services

Price List

Information for Clients

2022

School of Veterinary Science
Veterinary Science Building
Level 1 Building 8114
University of Queensland
Gatton Campus
Gatton Qld 4343

Contact

School of Veterinary Science | The University of Queensland Gatton Campus

Phone: +61 7 54601843 | Email: vls@uq.edu.au
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GENERAL INFORMATION

Operating hours
Veterinary Laboratory Services operates Monday to Friday, receiving samples from 8:30am to 4:00pm.

Contact
The VLS email is the primary contact as this is monitored by all staff: vls@uq.edu.au

Submission of samples
Samples for submission to VLS, excluding cadavers for necropsy, may be delivered in person to the Specimen Receipt Lobby, Level 1, Building 8114, UQ Gatton Campus; or sent by courier or post to the address on the front page of this Price List. Please email vls@uq.edu.au regarding cadaver submission.

Samples should be submitted in a plastic biohazard bag and accompanied by the appropriate VLS Test Request Form. All samples should be correctly labelled, and the Request Form fully completed. Each animal’s submission should be in a separate biohazard bag and accompanied by a separate Request Form. Please do not submit samples in rubber gloves or in syringes with needles attached. Such samples pose an unacceptable safety risk to laboratory staff.

VLS reserves the right to refuse to process samples that are not submitted in an appropriate manner.

Researchers
Researchers are welcome to contact vls@uq.edu.au to discuss available testing and prices. Pathologists are available for consultation on research testing.

External laboratories
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 $10 handling fee applies.

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. Bulk submissions may take longer.
- **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 to complete. Fungal cultures may take four weeks or longer to complete.
- **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, which may take many days.
- **Paid necropsies:** 4 - 6 weeks after necropsy date
- **Teaching necropsies:** up to 8 weeks after necropsy date, which depends on class schedules.
- **Any outsourced test:** turnaround time depends on the external laboratory.
CLINICAL PATHOLOGY

PROFILES - HAEMATOLOGY + BIOCHEMISTRY

Comprehensive Health Profiles
Includes CBC & MBA
Required samples: EDTA or lithium-heparin whole blood, serum, direct blood smear (+/- urine)
Canine/Feline/Small Mammal .................................................................................. $115
Equine ..................................................................................................................... $125
Ruminant/Camelid .................................................................................................. $120
Avian/Reptile/Other species .................................................................................. $130
Add-on UA ............................................................................................................. $32

Pre-Anaesthetic Profile
Includes: CBC & Pre-Anaesthetic MBA
Required samples: EDTA or lithium-heparin whole blood, serum
canine/Feline/Equine/Ruminant/Camelid ............................................................... $86
Add-on UA ............................................................................................................. $32

Equine Inflammatory Profile .................................................................................. $43
Includes: Fibrinogen, Serum Iron, SAA
Required samples: EDTA or lithium-heparin whole blood, serum

HAEMATOLOGY

Complete Blood Count (CBC) - Mammal
Includes: RBC, WBC, PLT, HB, MCV, MCHC, MCH, HCT, RETIC, blood smear evaluation, manual leucocyte differential, fibrinogen (if app), manual PCV, TPP. Also includes outsourced Pathologist review at no extra charge if abnormalities meet criteria set by VLS.
Required samples: EDTA, direct blood smear
Canine/Feline/Small Mammal .................................................................................. $54
Equine/Ruminant ................................................................................................... $59
Equine: Add on SAA and iron (include serum) ...................................................... $24

Complete Blood Count (CBC) - Avian/Reptile ................................................................ $65
Required samples: EDTA or lithium-heparin whole blood, direct blood smear

Cross Match ............................................................................................................. $91
Includes: major and minor crossmatch for one donor animal per recipient
Required samples: EDTA and serum from the recipient and donor animals
Additional donor ...................................................................................................... $43
**BIOCHEMISTRY**

Analytes included/available at VLS are listed on the last page of this document.

**Full biochemistry panel (multiple biochemical analysis – MBA)**
- Required sample: serum or lithium-heparin plasma
  - Canine/Feline/Small Mammal ................................................................. $65
  - Equine ........................................................................................................... $75
  - Ruminant/Camelid ....................................................................................... $70
  - Avian and Reptile ....................................................................................... $70

**1 to 6 Biochemistry analytes** (excludes SAA) ....................................................... $43
- Required sample: serum or lithium-heparin plasma

**Serum Amyloid A (SAA) – equine only** .................................................................. $27
- Required sample: serum preferred but heparin plasma can be used.

**Bile Acids**
- Required sample: serum or lithium-heparin plasma
  - single ............................................................................................................... $43
  - pre & post ..................................................................................................... $65

**URINE ANALYSIS**

**Urine Analysis** ........................................................................................................... $59
  - Includes: physical characteristics, USG, dipstick analysis, sediment exam, UP/UC ratio
  - Required sample: urine in a sterile specimen jar
  - Add-on culture and sensitivity (Aerobic) ........................................................... $48

**UP/UC only** .............................................................................................................. $43
- Required sample: urine in a sterile specimen jar

**Urine Analysis with Urine Cytology** ......................................................................... $100
- Outsourced test: Urinalysis at QML with subsequent Pathologist assessment of stained preparation of cells from urine. Price includes $10 handling fee.
  - Required sample: urine in a sterile specimen jar

**Fractional Excretion** ................................................................................................ $86
- Includes: up to 5 urine and serum analytes for fractional excretion calculation
  - Required samples: urine in a sterile specimen jar and concurrently collected serum or lithium-heparin plasma
## ENDOCRINE ANALYSIS

### Insulin (EQUINE ONLY)
Required sample: Serum

<table>
<thead>
<tr>
<th>Test</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single / baseline</td>
<td>$75</td>
</tr>
<tr>
<td>Oral Glucose Tolerance (2 x insulin + glucose)</td>
<td>$108</td>
</tr>
<tr>
<td>Oral Glucose Tolerance (3 x insulin + glucose)</td>
<td>$124</td>
</tr>
</tbody>
</table>

### Cortisol
Required sample: Serum or plasma

<table>
<thead>
<tr>
<th>Test</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single / baseline</td>
<td>$69</td>
</tr>
<tr>
<td>ACTH Stimulation (2x cortisol)</td>
<td>$97</td>
</tr>
<tr>
<td>Dexamethasone Suppression (3 x cortisol)</td>
<td>$124</td>
</tr>
</tbody>
</table>

### ACTH
Required sample: EDTA – Must be spun and separated ASAP. Collect 4 mL

<table>
<thead>
<tr>
<th>Test</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single/baseline (endogenous)</td>
<td>$118</td>
</tr>
<tr>
<td>Thyrotropin Releasing Hormone Stimulation (ACTH x 2)</td>
<td>$172</td>
</tr>
</tbody>
</table>

## CYTOLOGY

VLS can forward cytology requests to QML or IDEXX for a $10 handling fee. Refer to QML/IDEXX websites for prices and further information.

Alternatively, VLS can perform fluid analysis, as applicable, and prepare slides to be returned to the clinician for in-clinic reading.

### Fine Needle Aspirate/Impression Smears/TTW/Other Fluids not specified below

*Includes: slide preparation. Slides return to clinic for reading.*

<table>
<thead>
<tr>
<th>Test</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required sample: Glass slides and/or fluid in sterile specimen jar</td>
<td>$20/site</td>
</tr>
</tbody>
</table>

### BAL Fluid Analysis and Slide Preparation

*Includes: cell counts, slide preparation including Perl’s stain. Slides return to clinic for reading.*

| Required sample: Fluid in sterile specimen jar | $40 |

### CSF Fluid Analysis and Slide Preparation

*Includes: cell counts, protein, slide preparation. Slides return to clinic for reading.*

| Required sample: Fluid in sterile specimen jar | $45 |

### Pericardial/Pleural/Peritoneal/Synovial Fluid Analysis and Slide Preparation

*Includes: cell counts, protein, slide preparation. Slides return to clinic for reading.*

| Required sample: Fluid in sterile specimen jar | $40 |

### Fluid Analysis Only

*Includes: cell counts, protein, neutrophil %.*

| Required sample: Fluid in sterile specimen jar | $40 |

### Urine Cytology – see page 5 “Urine Analysis with Urine Cytology”
**MICROBIOLOGY**

Aerobic culture & sensitivity * .......................................................... $80

Urine “Add on” culture and sensitivity (Aerobic) # ........................................ $48

Aerobic C&S + Anaerobic culture ........................................................................ $100

Aerobic C&S + Anaerobic bacterial culture + Fungal culture ................................ $130

Salmonella spp. only culture (per sample) ......................................................... $48

Dermatophyte culture & microscopy ................................................................... $65

Fungal culture ........................................................................................................ $65

Mastitis culture & sensitivity ................................................................................ $60

Blood culture .......................................................................................................... $95
  *Blood to be submitted in blood culture enrichment bottles*

Equine Pre-mating (bulk discounts may apply) .................................................... $60

Calf Scours (Rainbow test) ..................................................................................... $70
  Required sample: Faeces – fresh or refrigerated.
  For detection of Rotavirus, Coronavirus, E. coli, and Cryptosporidium parvum.

It is important that adequate clinical history including any antimicrobial treatment be included on the submission form to allow the determination of clinical significance of bacterial growth.

EDTA tubes are not suitable specimen receptacles for culture. Please ensure specimens are submitted in either transport swabs or sterile specimen pots (e.g., yellow tops).

*Aerobic cultures may be upgraded to Aerobic and Anaerobic culture or Aerobic and fungal culture where clinically indicated.

# For Urine, “Add on C&S” must be requested at the same time as Urine Analysis for the discounted price to apply, otherwise regular Aerobic culture and sensitivity price applies.
PARASITOLOGY

Faecal Float (Small animals).................................................................................................................. $40
Required sample: Faeces – fresh or refrigerated.
Method: faecalizer
Reported as positive/negative for Strongyles, Coccidial oocysts, other egg types.

Faecal Egg Count (Livestock/horses)..................................................................................................... $40
Required sample: Faeces – fresh or refrigerated.
Method: McMaster
Reported as eggs per gram (epg) for Strongyles, other nematodes; Cestodes positive/negative; Coccidial oocysts (ruminants) negative/low/med/high.

Giardia ......................................................................................................................................................... $50
Required sample: Faeces – fresh or refrigerated.
Method – SNAP test & zinc sulphate float

Lungworm (Baermann Technique) ............................................................................................................... $100
Required sample: Faeces – Must be submitted on day of collection without refrigeration.
Submit Monday to Thursday only.
For detection of lungworm in cats and cattle.

Calf Scours (Rainbow test) ....................................................................................................................... $70
Required sample: Faeces – fresh or refrigerated.
For detection of Rotavirus, Coronavirus, E. coli, and Cryptosporidium parvum.
ANATOMIC PATHOLOGY

HISTOPATHOLOGY
Includes: processing, any special stains deemed necessary and formal reporting by the duty pathologist.
Required sample: Fresh tissue or tissue fixed in 10% Neutral Buffered Formalin.

<table>
<thead>
<tr>
<th>Tissue Count</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tissue</td>
<td>$132</td>
</tr>
<tr>
<td>2 Tissues</td>
<td>$154</td>
</tr>
<tr>
<td>3 Tissues</td>
<td>$176</td>
</tr>
<tr>
<td>4 Tissues</td>
<td>$198</td>
</tr>
<tr>
<td>&gt;4 Tissues</td>
<td>$240</td>
</tr>
<tr>
<td>Whole Organ</td>
<td>$250</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL FEES
Special stains requested by clinician .............................................. $40 EA
Difficult tissue handling fee (e.g. bone, teeth) .......................... $40 EA

SLIDE SCANNING
UQ Research slides .............................................................................. $5/slide
Scanned by VLS staff; must provide a hard drive for transfer of scanned slides or access to RDM
UQ Researchers ...................................................................................... $25/hr
Must be trained by VLS staff first (book through VLS – 8am to 4pm Monday-Friday)
Must provide hard drive for transfer of scanned slides or have access to RDM

IMMUNOHISTOCHEMISTRY (IHC)
Diagnostic
Includes Primary antibody, slide review and report ................................. $75/1st
................................................................. $60/2nd

Non UQ Researcher
Excludes Primary antibody (to be provided), slide review and report .................. $75/1st
................................................................. $60/2nd

UQ Internal research (performed by VLS staff)
Excludes Primary antibody (to be provided) ................................................ $50/1st
................................................................. $40/2nd
For slide review and report contact specialist pathologists

UQ Internal research (performed by researcher) Training by VLS is required.
Excludes Primary antibody (to be provided) ................................................ $30/1st
................................................................. $25/2nd
For slide review and report contact specialist pathologists
NECROPSIES

Includes gross pathology, histology, routine disposal, special stains (deemed necessary), one culture and formal reporting by the duty pathologist.

Cadavers should be refrigerated at 4° C but not frozen (if possible).

NOTE: Veterinarians and owners are encouraged to check their cremation or transport company is a fully refrigerated service for storage and transport. Some companies do not offer this, resulting in deterioration of autopsy specimens. UQSVS doesn't accept responsibility for the loss of diagnostic accuracy from autolysis of specimens due to prolonged post-mortem intervals, suboptimal storage or transport.

Wildlife (state owned/conservation program) .............................................................................................................. $200
Avian/Reptile (<1kg) .................................................................................................................................................. $220
Very Small animal (<1kg e.g., Pocket pet) .................................................................................................................. $250
Small animal (<50kg puppy/kitten – litter up to 3 animals) ....................................................................................... $420
Small animal (<50kg adult dog/cat) ............................................................................................................................ $480
Medium animal (<200kg pig/calf/small ruminant- herd up to 3 animals) ................................................................... $500
Large Animal (>200kg production ox/adult pig) ........................................................................................................ $600
Large Animal (>200kg horse) * ................................................................................................................................. $800**
Insurance horse* ....................................................................................................................................................... $1700**
Insurance foal* ............................................................................................................................................................ $1000**
QRIC gross diagnosis only ........................................................................................................................................ $600
RSPCA pup/ kitten special price .................................................................................................................................... $350
RSPCA/QPS ‘Black tags’ forensics assessment companion animal ............................................................................ $400
RSPCA/QPS forensic assessment large animal ........................................................................................................... $550

NECROPSIES - Supplemental Fees

PCR testing ................................................................................................................................................................. at cost
Additional tests (culture, CP, para, IHC) .................................................................................................................. at cost
Additional special stain requested by clinician ......................................................................................................... $40 ea.
Horse Hendra testing .................................................................................................................................................. $40 ea.
Large animal neurological supplement (horse, cow, adult pig) ................................................................................ $300**
Legal consultancies/Expert 2nd opinion (excludes RSPCA, QPS, Racing QLD) ......................................................... $350**
Post-mortem radiographs (2 plates + $50/ extra plate) ........................................................................................... $200
Post-mortem computer tomography ........................................................................................................................ POA
Research tissue ............................................................................................................................................................ POA
Toxicology testing ......................................................................................................................................................... POA

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

Note: There is no reduction in the price for insurance cases if only tissue or partial cadaver is sent.
For remote (>3hrs from UQ Gatton Campus) insurance animals refer to the ‘Remote Collection Procedure’.

**Includes additional examinations, reporting, statutory declarations required for legal or insurance cases.

Cadavers must be submitted by a veterinarian and the reports are sent to the veterinarian/clinic (no correspondence with an owner)
Please email vls@uq.edu.au to arrange submission of a cadaver.
NECROPSIES - Further Information

All non-cadaver samples (biopsies/organs/limbs/etc.) submitted to the laboratory, should be fixed in 10% Neutral Buffered Formalin, and adhere to IATA 650 packing instructions. Please contact the laboratory for the correct submitting procedures if unsure.

For legal cases, the bodies will be held in a secure facility until we receive written confirmation that the case is closed or no longer proceeding.

Service options

Teaching PM
Performed by students, under pathologist supervision
Not suitable for legal or insurance cases
Results are not guaranteed
Reports, when available, are prepared by students
Will take at least 8 weeks from the time of necropsy (dependent on class schedule)

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 returned to the owner as soon as practicable.

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

Disposal options

THIS MUST BE INDICATED ON REQUEST FORM

Deep burial  Collected by waste contractor and buried in a communal pit
Certificates of deep burial can by requested

Private Cremation**  Must be clearly stated on submission form
Must be arranged and paid for by owner
After necropsy, VLS arranges collection by nominated company

**Veterinarians and owners are encouraged to check their cremation or transport company is a fully refrigerated service for storage and transport. Some companies do not offer this resulting in deterioration of autopsy specimens. UQSVS doesn’t accept responsibility for the loss of diagnostic accuracy from autolysis of specimens due to prolonged post-mortem intervals, suboptimal storage or transport.

VLS can hold samples for a maximum of 1 week if the owner is deciding on private cremation but must be informed prior to receiving the carcass. The exception is if the body is to be held for legal cases.

Further Information

Contact  PM Technician  5460 1937 or 0427 083 538
Anatomy Technician  5460 1871 or 0401 717 235
Pathology Interns  5460 1872
Email:  vls@uq.edu.au
APPENDIX 1 Terms and Conditions

Delivery of results
Upon delivery of samples in good order and condition UQ VLS will use its best efforts to meet standard turnaround times for resulting. UQ VLS laboratories will advise the submitter of any samples that we receive in damaged, contaminated, or improperly preserved condition or which do not meet the sample volume requirements prior to processing if possible. Results of diagnostic analyses will be returned only to the named veterinary surgeon(s) submitting the sample unless otherwise required by state or federal regulations. Specimens will not be received from members of the public without prior approval and arrangement. For research samples results will be returned only to the named researcher(s) submitting the sample.

Sample
Specimen packaging is the responsibility of the submitter and must conform to IATA regulations, section 650, or other regulations as amended from time to time. UQ VLS reserves the right to charge for supplied shipping containers and IATA packaging materials supplied to submitters or used in the rerouting of specimens to external laboratories or institutions.

UQ VLS reserves the right to refuse to accept or to rescind acceptance of any sample which in the judgement of UQ VLS is likely to pose an unreasonable risk in handling or analysis. You represent and warrant that any sample containing any hazardous substance that is to be delivered to UQ VLS will be packaged, labelled, transported, and delivered in accordance with applicable laws.

We may at our option either dispose of or return to you unused portions of samples found or suspected to be hazardous or to contain hazardous materials according to state and federal guidelines at the completion of analytical work or on the suspension of analytical work after material is deemed to pose unacceptable risk in handling or analysis. We may invoice you for the reasonable cost of disposal or return of the sample.

Retention of samples
After we report analytical results, we routinely retain diagnostic samples in our laboratory for the following periods: Blood 1 month; serum a minimum of 5 years; blood smears or cytology slides a minimum of 3 years; samples for bacterial and fungal culture minimum of two weeks; parasitology samples will be held for a minimum of 1 week, histopathology wet samples 1 month; histopathology blocks for a minimum of 5 years; histology slides a minimum of 1 year.

Animal remains destined for private cremation must have this clearly indicated on the accompanying paperwork at the time of sample accession. Animal remains will be held for a maximum of 5 working days post examination prior to disposal only with prior request of the submitter. Any animal remains where private cremation is not indicated will be sent for routine UQ bulk waste disposal on the next available shipment.

UQ VLS reserves the right to use deidentified diagnostic samples and specimens for teaching and research purposes.

Retention of reports
Unless otherwise agreed in writing, UQ VLS will retain copies of analytical reports for a minimum period of 5 years. UQ VLS stores all analytical reports in electronic format. A hard copy is available on request. UQ VLS reserves the right to charge for additional copies of reports once the original copy has been issued. UQ VLS reserves the right to use the contents of deidentified analytical reports for teaching and research purposes.

Limited Warranty and Limits of Liability
In accepting analytical work, UQ VLS warrants the accuracy of the test results for the sample as submitted. We accept no legal responsibility for the purposes for which you use the test results. Where permitted by law, all terms, conditions, warranties, and representations whether express or implied, statutory, or otherwise, relating to the work are excluded and we will not be under any other liability in respect of any loss or damage (including consequential loss or damage) however caused (whether by negligence or otherwise) which may be suffered or which may arise directly or indirectly with respect of the work. Subject to law UQ VLS liability is limited to our option to supply the work again or the payment of the cost to resupplying the work.
# APPENDIX 2 Biochemical analytes included/available

| BIOCHEMISTRY | Na | K | Na:K | Cl | HCO₃ | Ca | PO₄ | Mg | Anion gap | Urea | Creatinine | Uric acid | CK | AST | ALT | ALP | GLDH | GGT | T Bil | Bile acids | TP | Albumin | Globulin | Alb:Glob | Glucose | Chol | TGS | B-O HB | Lipase | Amylase | SA | Iron | NEFA |
|---------------|----|----|------|----|------|----|-----|----|-----------|------|------------|----------|----|-----|-----|-----|------|-----|-------|------------|----|---------|----------|----------|---------|-----|------|-------|--------|---------|-----|------|-------|--------|---------|-----|------|-------|
| MBA           |    |    |      |    |      |    |     |    |           |      |            |          |    |     |     |     |      |     |       |            |    |          |          |          |         |     |     |       |        |         |     |     |       |        |         |     |     |       |
| Canine        | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Feline        | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Equine        | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Ruminant      | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Camelid       | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Avian & Reptile|   |   |      |    |      |    |     |    |           |      |            |          |    |     |     |     |      |     |       |            |    |          |          |          |         |     |     |       |        |         |     |     |       |        |         |     |     |       |
| Other species | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Panel         |    |    |      |    |      |    |     |    |           |      |            |          |    |     |     |     |      |     |       |            |    |          |          |          |         |     |     |       |        |         |     |     |       |
| Pre-anaesthetic (Canine/Feline) | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |
| Pre-anaesthetic (Equine/Rum/Camel) | ●  | ●  | ●    | ●  | ●    | ●  | ●   | ●  | ●         | ●    | ●          | ●        | ●  | ●   | ●   | ●   | ●    | ●   |       | ●            | ●  | ●        | ●        | ●        | ●        | ●   | ●   | ●     | ●      | ●        | ●   | ●   | ●     |