

## SPECIMEN SUBMISSION GUIDELINE

**April 2026 – March 2027**

**The laboratory is open Mondays to Fridays 8:00 to 16:30**

Submission forms are available from the laboratory. Contact the laboratory (telephone: 021 808 7510) or forms can be downloaded from the website: <https://www.elsenburg.com/veterinary-services/veterinary-laboratory-services/>.

A completed sample submission form must accompany each submission. To avoid unnecessary delays in testing, please ensure that submission forms are completed in full. **Samples will not be released for testing until full client (owner and sender) information is provided. For controlled / notifiable disease testing, please supply the relevant State Veterinarian details.** Please do not edit the format of the form as supplied, complete only the relevant information on the form in the spaces provided. The published turnaround time will only commence once the samples have been released for testing.

Please make use of the relevant sample submission forms when submitting samples for testing:

- Sample submission form (P-SR-F-001)
- Sample submission form - Bovine Brucellosis for milk ring test (MRT) (P-SR-F-002)
- Sample submission form - Bovine Brucellosis testing on serum (RBT; CFT): a Department of Agriculture, Directorate of Animal Health (DoA: DAH) approved Brucellosis testing form (BR5), should accompany Bovine Brucellosis samples (forms are available from your local State Veterinarian or on our website).
- Sample submission form - African Buffalo & Wildlife *Brucella abortus* RBT & CFT (P-SR-F-013)
- Sample submission form - *Brucella melitensis* and *Brucella ovis* Caprine & Ovine CFT (P-SR-F-006)
- Sample submission form - Dourine CFT (P-SR-F-003)
- Sample submission form - African Horse Sickness virus (PCR) (P-SR-F-015)
- Sample submission form - Veterinary public health (VPH) / Food safety testing (P-SR-F-008)
- Sample submission form - Chemical residue testing (P-SR-F-012)

Accurate diagnosis and testing depends on the correct submission of quality specimens; please refer to the tabulated testing services for sample submission details. Where applicable, please include animal history (purpose of testing, age, vaccinations, medication, date of sampling, number of animal deaths, etc.).

### **Sample packaging should comply with specimen transport regulations:**

Refer to WOAHA guidelines for more information on the triple-layer packaging system ([https://www.woah.org/fileadmin/Home/eng/Health\\_standards/tahm/1.01.03\\_TRANSPORT.pdf](https://www.woah.org/fileadmin/Home/eng/Health_standards/tahm/1.01.03_TRANSPORT.pdf)).

Samples should be packaged in a secure, leak proof container. Ensure that samples are kept at the correct temperature during transportation to maintain sample integrity for testing – refer to the transport requirements for each test method. A courier service should be used where possible or samples may be hand delivered.

**Address**

Courier or hand delivery:

Western Cape Provincial Veterinary Laboratory  
Helshoogte Road  
Stellenbosch  
7600  
Tel: 021 808 5710  
GPS Coordinates: 33.91992 S, 18.86915 E

**Fees**

All fees listed are VAT exempt.

**Sample handling fee:** Note that if organs or tissues (not full intact carcasses) are submitted for laboratory testing, and sample collection is required to submit a suitable sample for laboratory testing, a sample handling fee of **R135.00 per submission** will apply. Samples must be submitted fresh, within 24 hours of animal death as advanced decomposition will negatively affect the quality of the test result.

If samples are referred or sub-contracted for testing at another laboratory, an additional fee may be applicable. In these instances, the client who submitted the sample will be requested to pay the additional fee directly to the referral or sub-contracted laboratory. Please contact the laboratory for further information.

**Food safety, zoonotic, controlled and notifiable disease testing and reporting**

Please note that it is compulsory for all laboratories performing tests for food safety, zoonotic, controlled and notifiable disease conditions to report incidence of positive or suspected incidence to the DoA: DAH, as per amendments to Regulation 12, Section 31, of the Animal Diseases Act, Act 35, 1984 and the Meat Safety Act, Act No. 40 of 2000. In some instances, both positive and negative test results may be reported at the request of state veterinarians(s) and / or DoA: DAH.

Client information and results will be disclosed to the provincial state veterinarian, the submitter (private veterinarian or laboratory), the National Director (Animal Health) and / or the National Executive Officer (Veterinary Public Health).

In addition, client information and results will be disclosed to external auditors subject to the requirements of external auditing or assessment bodies performing auditing activities. Client information is also disclosed to sub-contractor or referral testing laboratories and institutions that perform additional testing.

**SANAS accreditation, DoA: DAH approval and DoA: VPH registration**

#: SANAS accredited and DoA: DAH approved test methods for the specimen type (matrix)

^: SANAS accredited test methods for the specimen type (matrix).

§: SANAS flexible scope accreditation. Contact the laboratory for the current SANAS accreditation and / or validation status of test methods and substances in specific specimen types / matrices.

SANAS accreditation number: V0029.

DoA: DAH approval number: 0029.

DoA: VPH registration number: 01



Please contact the laboratory or refer to the latest schedule of accreditation on the SANAS website for accredited test methods, flexible scope accreditation and the applicable sample types (<https://www.sanas.co.za/Pages/index.aspx>) and DoA: DAH approval status on the DoA: DAH website (<https://www.nda.gov.za/index.php/publication/422-laboratory-approval>).

## TESTING SERVICES PER LABORATORY SECTION

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**BACTERIOLOGY**

Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
General Culture and identification (aero-tolerant anaerobic or aerobic)	Organs Swabs Aspirates, Faeces, Blood, Skin, Tissue	Culture & Biochemical identification	R503.00/ case (max 3 samples)	Fresh material only Swabs preferably in transport medium	Decomposed samples Organs in formalin	24 - 48 hrs	Transported at ± 4°C-8°C	10 work days
Bovine Mastitis: Bacterial Culture and ID	Raw milk - 10ml	Culture and ID	R373/ case (1-4 samples)	Raw milk - 10ml	< 10 ml Blood in sample Colostrum Sour Pasteurised Homogenised	24 hrs	Transport at ± 4°C – 8°C	7 work days
# Salmonella monitoring, culture and identification	# Faeces, # Organs - 1 gram / swab  Litter - 25 grams, Gauze swabs Dust, drag or boot swabs / covers Eggs (whole) Egg/hatchery debris	Selective culture Biochemical identification	R503.00/ case (max 3 samples)	Fresh samples Swabs preferably in transport medium	Drag swabs taken incorrectly Decomposed samples Organs in formalin	24 - 48 hrs	Transported at ± 4°C-8°C or at ambient temperature	10 work days
# Brucella spp. Isolation and presumptive identification	# Foetal membranes, aborted foetuses & full-term calves (including organs, abomasal (stomach) contents); # Animal carcass tissues/ organs, lymph nodes. # Milk - 20ml  Vaginal swabs Arthritis / hygroma fluids Blood 5ml	Culture & Biochemical identification	R435.00/ case (max 3 samples)	Fresh material only	Sour milk Decomposed samples Organs in formalin	24 - 48 hrs	Transported at ± 4°C-8°C in compliance with the United Nations regulations (clearly label contents as suspect Brucella)	20 work days <i>B. canis</i> : 25 work days
Antibiogram	Bacterial isolate	Antibiogram	R148.00/ test	24 hr Bacterial culture on non-selective medium	> 24 hrs bacterial culture  Mixed culture	-	Transported at ± 4°C-8°C	5 work days



### BIOCHEMISTRY

Dr Tasneem Anthony: Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Serum minerals: Cu, Zn	Serum (5-10ml)	ICP-OES	R169.00 / mineral sample	Serum (Red / Yellow top), preferably separated from clot	Haemolysed serum with or without clot	48 hours	4°C-8°C	15 work days
Organ (Liver, including liver biopsy, and kidney): minerals (Cu, Fe, Zn, Mn, Ca, Mg, P)	Liver / kidney (100g)  Liver Biopsy (≥ 0.500g)	ICP-OES	R169.00 / mineral/ sample	Fresh organs in clean leak-proof sample bottle / container, sealed plastic bag, on ice;  Organs in 7-10% unbuffered Formalin  Fresh liver biopsy in clean leak proof container/tube on ice	Decomposed samples,  Organs 7-10% buffered formalin	48 hours	Fresh samples - frozen organs on ice  Organs in 7% unbuffered formalin transported at ambient temperature	15 work days
Serum: Gamma-Globulin	Serum (5-10ml)	Spectrometry (turbidity)	R67.00/ sample	Serum (Red / Yellow top), preferably separated from clot	Plasma, Whole blood, Haemolysed serum	24 hrs	4°C-8°C	10 work days
Haematocrit (Packed cell volume)	Whole Blood (5-10ml)	Haematocrit centrifuge	R10.00/ sample	Whole blood (preferably EDTA – lavender / purple top)	Clotted blood sample, serum	24 hrs	4°C-8°C	10 work days
pH	Rumen (≥20 ml), water (50ml)	pH	R19.00/ sample	Fresh sample	Samples that are older than 24 hrs from time of sampling	24 hrs	4°C-8°C	5 work days
Nitrate/Nitrite	5ml eye fluid / serum	Spot test, qualitative	R45.00/ sample	Samples In separate sterile containers. Serum (Red / Yellow top), preferably separated from clot	Samples older than 24 hrs	24 hrs	4°C-8°C	5 work days

### CHEMICAL RESIDUE TESTING (CRT)

Dr Flip Alberts: Tel: 0218087526, email: Flip.Alberts@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
<sup>§</sup> Veterinary medicine residues in food of animal origin.  Contact the laboratory for the current SANAS	At least 100 g of the appropriate tissue or target organ.	LC-MS	R4542.00/ sample (see NOTE)	Fresh sample, preferably frozen immediately after sampling	Decomposed sample. Packaging compromised	48 hrs	Samples must be kept frozen and packaged in Styrofoam containers with ice	20 work days



### CHEMICAL RESIDUE TESTING (CRT)

Dr Flip Alberts: Tel: 0218087526, email: Flip.Alberts@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
accreditation and / or validation status of test methods and substances in specific specimen types / matrices							packs when dispatched.	
NOTE: If your request involves a subset of substance groups, and it can be analyzed using only a subset of methods, then you may qualify for a reduced tariff. Please contact the laboratory for more information.								
Flavophospholipol in Ostrich Feed	At least 100g of feed	LC-MS	R447.00 / sample	Dry feed sample, representative sub-sample of the feed batch, supplied in a cleaned sealed container	Moist, damp specimen. Packaging compromised	5 days	Ambient temperature	20 work days

### TOXICOLOGY

Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za (microscopic examination)

Dr Flip Alberts, Tel: 021 808 7521 email: Flip.Alberts@westerncape.gov.za (LCMS determination)

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Ryegrass toxicity	Grass with ripe seed	Microscopic examination & Liquid Chromatography-mass Spectrometry (LCMS)	R94.00/ sample R211/ sample	Sample must be representative of feed batch*  ** Ideally > 500 g	Grass with immature seed	48 hrs	Ambient temperature	7 work days
* Representative sample: grass with ripe seed collected from multiple areas throughout the camp, or feed/hay batch of interest. The integrity of the results are 100% dependent on the representativeness of the sample received. ** Sample size is dependent on the size of the camp, or feed/hay batch.								

### FOOD SAFETY (VETERINARY PUBLIC HEALTH)

Dr Tasneem Anthony: Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
^ Aerobic plate count	^ Meat 100g	Aerobic culture and count (SANS 4833-1)	R140.00/ sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C	7 work days
	^ Dry Feed / Foodstuff 50g			Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to		Transported at ambient temperature	7 work days



**FOOD SAFETY (VETERINARY PUBLIC HEALTH)**

Dr Tasneem Anthony; Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
					environmental contamination)		Transported at ± 4°C-8°C	7 work days
	Rodac / contact / exposure Plate [available from lab]			Plate clearly labelled	Packaging compromised (exposure to environmental contamination)			
	Environmental swabs			Swabs in transport medium, clearly labelled	Dry swab			
^ E. coli count	^ Meat 100g	Aerobic culture and count (SANS / ISO 16649-2)	R169.00/ sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C	7 work days
	^ Dry Feed / Foodstuff 50g			Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)			
	Environmental swabs	Aerobic culture and count (SANS/ ISO 7218 and 7251 MPN method)	R169.00/ sample	Swabs in transport medium, clearly labelled				
^ Salmonella spp.	^ Meat 100g	Aerobic culture and isolation, detection (ISO 6579-1)	R245.00/ sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C	10 work days  Salmonella typing referral on request only
	^ Dry Feed / Foodstuff 50g			Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)			
	Environmental swabs			Swabs in transport medium, clearly labelled	Dry swab			
^ Enterobacteriaceae	^ Meat 100g	Aerobic culture and count (SANS / ISO 21528-2)	R175.00/ sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C	7 work days



**FOOD SAFETY (VETERINARY PUBLIC HEALTH)**

Dr Tasneem Anthony; Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
					(exposure to environmental contamination)			
	^ Dry Feed / Foodstuff 50g			Dry feed, clearly labelled	Wet, damp specimen Packaging compromised (exposure to environmental contamination)		Transported at ambient temperature	7 work days
	Rodac / contact / exposure Plate [available from lab]	Aerobic culture and count (SANS / ISO 21528-2)	R175.00/ sample	Plate clearly labelled	Sample which has not been packaged correctly Packaging compromised (exposure to environmental contamination)	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C	7 work days
	Environmental swabs			Swabs in transport medium, clearly labelled	Dry swab		Transported at ± 4°C-8°C	7 work days
^ <i>Listeria monocytogenes</i> screening and confirmation	^ Meat 100g	Rapid Test (VIDAS)	R372.00 screening test / sample  R206.00 confirmation test / sample	Fresh specimen clearly labelled	Cold chain not maintained Packaging compromised (contamination)	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C	5 work days
	^ Dry Feed / Foodstuff 50g			Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)		Transported at ambient temperature	
	Environmental swabs			Swabs in transport medium, clearly labelled	Dry swab		Transported at ± 4°C-8°C	
^ Aerobic plate count (Water)	^ Water 1000ml	Aerobic culture and count (SANS 5221)	R139.00/ sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C or at ambient temperature	7 work days
^ Total Coliforms (Water)	^ Water 1000ml	Aerobic culture and count (SANS 5221)	R156.00/ sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C or at ambient temperature	7 work days
^ Faecal coliforms & <i>E. coli</i> (Water)	^ Water 1000ml	Aerobic culture and count (SANS 5221)	R339.00/ sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24-48 hrs, or as agreed by the parties involved.	Transported at ± 4°C-8°C or at ambient temperature	7 work days
^ Faecal Streptococci (Water)	^ Water 1000ml	Aerobic culture and count	R201.00/ sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24-48 hrs, or as agreed by the	Transported at ± 4°C-8°C or at	7 work days



**FOOD SAFETY (VETERINARY PUBLIC HEALTH)**

Dr Tasneem Anthony; Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
		(SANS 7899-2)				parties involved.	ambient temperature	

**HISTOPATHOLOGY**

Dr Tasneem Anthony; Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Histopathology	Organs, Bone	Processing, staining and microscopic examination of stained wax embedded sections (H&E)	R569.00 / case  (1-5 cassettes)	Fresh sample  Correct size	Decomposed or dried out samples  Incorrect size	1 week	Specimens must be placed in a leak proof container. Lids must be secured and checked to ensure no leakage	10 work days (biopsy samples)  20 work days (pooled organ samples collected post mortem)
	Organs: Maximum 10mm thickness.  Whole brain to be fixed in formalin for longer period.	Processing and staining only (H&E)	R412.00 / case  (1-5 cassettes)	A 10% neutral buffered formalin solution  Sample must be totally covered in formalin	Incorrect formalin solution			
	Ratio of sample to formalin must be 1:10	Additional special stain(s): <ul style="list-style-type: none"> <li>• Congo red</li> <li>• Chlamydia</li> <li>• Giemsa</li> <li>• Gram</li> <li>• Jone's methenamine silver</li> <li>• Grocott methenamine silver</li> <li>• Masson trichrome</li> <li>• Modified Ziehl-Neelsen</li> <li>• Periodic acid-Schiff</li> <li>• Perts'</li> <li>• Rhodanine</li> <li>• Schmorl's</li> <li>• Warthin-Starry</li> <li>• Ziehl-Neelsen</li> <li>• Toluidine Blue</li> </ul>	R173.00 / per case  (1-4 slides)	Minimal organic soiling of formalin				
Histopathology	Pre-stained slides	Examination; Second opinion/research	R217.00 / case  (1-5 slides)	Clearly labelled stained slides  Full history and signalment	Damaged slides  Poorly stained slides	1 month	Slides must be placed in a suitable slide carrier	20 work days Possibly longer for research cases (To be discussed on a case-by-case basis)



**PATHOLOGY (POSTMORTEM / NECROPSY)**

Cattle, horses, pigs, reptiles, wildlife, exotics, marine mammals, avian and ostriches etc.:  
Dr Tasneem Anthony, Tel: 0218087537, email: Tasneem.Anthony@westerncape.gov.za  
Fish & Shellfish: Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

\* If samples are referred or sub-contracted for testing at another laboratory, an additional fee may be applicable. In such cases the client who submitted the sample will be requested to pay the additional fee directly to the referral or sub-contracted laboratory.

Please contact the laboratory for further information.

Test/s required	Sample Type & Size	Assay	* Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirement	Turn-around time
Pathology investigation	Whole animal carcass	Necropsy and histological examination, further laboratory testing	<p>Adult large animal (Cattle, horses, pigs, reptiles, wildlife, exotics, marine mammals, etc.): R1280.00 / animal</p> <p>Small and immature animals (small stock, dogs, cats, immature animal or wildlife, reptiles, exotics marine mammal etc.): R811 / animal</p> <p>Poultry/ Birds: R640.00 / 1-5 birds</p> <p>Ostrich, Adult: R1280.00 / ostrich</p> <p>Ostrich, immature: R640 / 1-5 ostriches</p> <p>Foetus: R938.00 / foetus (includes Brucellosis investigation ONLY, additional referral testing for client account)</p> <p>Fish: R903.00 / 1-10 per case</p> <p>Fish / Shellfish: (mollusc, bivalves), call out R2139.00/case</p> <p>After Hours / Insurance case fee – all species: R3868.00 / animal</p> <p>Where elective euthanasia (Euthapent) is required, R27.00 / ml of part thereof</p> <p>* Referral / subcontractor</p>	Whole animal carcass	Advanced decomposition	24 hrs	None	<p>Prelim findings: within 4 work days (Telephonic, email).</p> <p>Final Report: within 20 work days;</p> <p>Final report findings may be delayed by laboratory test results. Please contact the laboratory for an update.</p>



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Fish & Shellfish: Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

\* If samples are referred or sub-contracted for testing at another laboratory, an additional fee may be applicable. In such cases the client who submitted the sample will be requested to pay the additional fee directly to the referral or sub-contracted laboratory.  
Please contact the laboratory for further information.

Test/s required	Sample Type & Size	Assay	* Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirement	Turn-around time
			testing may be subject to additional laboratory test fees.					
Rabies	Whole animal carcass or head	Collection of Rabies samples for Referral testing	No fee charged for collection / sampling.	Clearly marked as High risk  Whole animal carcass or head	Advanced decomposition	24 hrs	Clearly marked as High risk	On request  Samples are submitted for referral testing (contact laboratory for details)

**PCR (MOLECULAR)**

Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab:	Transport Requirements	Maximum turn-around time
# Avian Influenza Virus A (AIV)  (PCR positive samples to be tested further to detect AIV subtype)	# Swabs (PCR rayon / cotton tipped, plastic shaft): cloacal, tracheal, other tissue) # Tissue (cloacal, tracheal, other tissue)	Screening Matrix gene rRT-PCR	R477.00/ test	Swabs (PCR rayon / cotton tipped, plastic shaft) of trachea, cloaca, tissue, preferably in virus transport fluid.  Tissue (trachea, organs), preferably in virus transport fluid.	Whole blood	≤72 hrs after sampling	Transported at ± 4°C-8°C	7 work days
		Additional H5 / H7 / N-type subtyping rRT-PCR	R631.00/ test		Serum  Unsuitable swab types (e.g. wooden shaft, bacterial swab)  Dry swab samples submitted ≥ 72hrs after sampling			
# African Horse Sickness Virus (AHSV)	# Blood (1 x EDTA), # tissue	Screening VP7 gene rRT-PCR	R534.00/ test	Blood, uncoagulated EDTA only, Tissue (lung, spleen)	Blood, uncoagulated in Heparin  Blood, coagulated or decomposed  Serum	As soon as possible, to ensure sample integrity to testing	Transported at ± 4°C-8°C	7 work days  2 work days (AHSV testing for animal movement purposes – only samples pre-booked with the laboratory. See NOTE below)

NOTE: AHSV testing for animal movement purposes: testing done on Tuesdays, Wednesdays and Thursdays (samples must be received at the laboratory before 10H00).



### PARASITOLOGY

Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Faecal egg & oocyst count (Round worm, Tapeworm, coccidia)	Faeces 10 grams	Worm egg count (McMaster faecal flotation test)	R55.00/ sample	Fresh, collected directly from rectum; kept at 4 - 8°C	Faeces not fresh collected off the ground; not kept cool; Frozen	24 - 48 hrs	Kept at ± 4°C - 8°C	7 work days
	Faeces 10 grams (pooled sample)		R63.00/ pool					
Faecal flotation test (qualitative)	Faeces 10 grams	Faecal flotation test (qualitative)	R135.00/ sample	Fresh, collected directly from rectum; kept at 4 - 8°C	Faeces not fresh collected off the ground; not kept cool; Frozen	24 - 48 hrs	Kept at ± 4°C - 8°C	7 work days
Fluke egg detection (conical & liver)	Faeces 10 grams	Worm egg examination (sedimentation)	R47.00/ sample	Fresh, collected directly from rectum; kept at 4 - 8°C	Faeces not fresh collected off the ground; not kept cool; Frozen	24 - 48 hrs	Kept at ± 4°C - 8°C	7 work days
<i>Cryptosporidium</i> oocysts detection in faecal and intestinal samples	Faeces 1 gram	Staining	R174/ sample	Fresh diarrhoeic faeces, collected directly from rectum; kept at 4 - 8°C	Faeces not fresh collected off the ground; not kept cool; Frozen	24 - 48 hrs	Kept at ± 4°C - 8°C	7 work days
Wool examination for Sheep scab ( <i>Psorotes ovis</i> )	Skin scraping, can add small wool plucking	Microscopic examination	-	Skin scrapings (scalpel blade) from the edge of the lesion, and small amount of wool plucked at the edge of lesions. Suspend scrapings in liquid paraffin.	Samples older than 3 days Refrigerated / frozen samples / large clumps of wool only	3 days	Kept at ambient temperature	3 work days

### REPRODUCTION

Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Sperm Morphology	Fresh semen, Frozen processed semen	Microscopic evaluation	R75.00/ sample	Fresh aseptically collected semen - kept at 35°C-38°C. Frozen semen - stored in liquid nitrogen	Contaminated semen, Semen not kept at required temperature, Blood in semen	12 hrs (Fresh) 24 Hrs (Frozen)	Fresh semen – keep at 35-38°C. Frozen semen – keep in liquid nitrogen	7 work days
Sperm morphology and motility	Fresh semen, Frozen processed semen	Microscopic evaluation	R86.00/ sample	Fresh aseptically collected semen - kept at 35°C-38°C.	Contaminated semen, Semen not kept at required temperature,	12 hrs (Fresh) 24 Hrs (Frozen)	Fresh semen – keep at 35-38°C.	7 work days



### REPRODUCTION

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Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
				Frozen semen - stored in liquid nitrogen	Blood in semen		Frozen semen – keep in liquid nitrogen	
Cytology (MZN stain)	Prepared smear on glass slide (semen)	Microscopic examination of MZN Stained smears	R18/ sample	Correctly prepared smears	Incorrectly prepared smears, Smears too thick	48 hrs	Transported at ambient temperature  Sufficient packing material to prevent slides from breaking	5 work days
Sperm morphology & cytology (MZN stain)	Refer to details above		R105/ sample	Refer to details above				7 work days
Sperm morphology, motility, & cytology (MZN stain)	Refer to details above		R105/ sample	Refer to details above				7 work days

### SEROLOGY

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Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
# <i>Brucella abortus</i> (Bovine)	# Whole clotted blood 6-10ml / Serum - 3 ml	Rose Bengal Test (RBT)	R17.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	10 work days
		CFT <sup>1</sup>	R40.00/ test					10 work days
# <i>Brucella abortus</i> (Bovine)	# Raw full cream milk ≥ 5ml	MRT <sup>3</sup>	R7.00/ test	Raw full cream milk ≥ 5ml or 2 ml preserved with formalin	Sour milk , Milk with insufficient cream Colostrum Pasteurised milk Homogenised milk Bloody milk	3 days after collection from the tank	Transported at ± 4°C - 8°C	5 work days
# <i>Brucella abortus</i> (Buffalo)	# Whole clotted blood 6-10ml / Serum - 3 ml	Rose Bengal Test (RBT)	R63.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C,	10 work days
		CFT <sup>1</sup>	R100.00/ test					
<i>Brucella abortus</i> (Wildlife <sup>4</sup> , other than Buffalo).	Whole clotted blood 6-10ml / Serum - 3 ml	Rose Bengal Test (RBT)	R63.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	10 work days
		CFT <sup>1</sup>	R100.00/ test					
<i>Brucella melitensis</i> (Caprine; Ovine)	Whole clotted blood 6-10ml / Serum - 3 ml	Rose Bengal Test (RBT)	R17.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	10 work days
		CFT <sup>1</sup>	R40.00/ test					10 work days
<i>Brucella ovis</i> (Ovine)	Whole clotted blood 6-10ml /	CFT <sup>1</sup>	R43.00/ test	Clotted Sample,	Unclothed,	5 days	Transported at ± 4°C - 8°C	10 work days



### SEROLOGY

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Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
	Serum - 3 ml			Clear serum	Haemolysed serum			
# Dourine (Equine; Mule; Donkey)	# Whole clotted blood 6-10ml / # Serum - 3 ml	CFT <sup>2</sup>	R216.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	10 work days
# Newcastle Disease Virus (NDV) (Avian, Ostrich)	# Whole clotted blood 6-10ml / # Serum - 3 ml	HI	R17.00/ antigen	Clotted Sample Clear Serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	10 work days
# Influenza A virus (AIV) (Avian, Ostrich)	# Whole clotted blood 6-10ml / # Serum - 3 ml	HI	R35.00/ antigen	Clotted Sample Clear Serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	10 work days
# Influenza A virus (AIV) antibody (Avian, Ostrich)	# Whole clotted blood 6-10ml / # Serum - 3 ml	ELISA	R49.00/ test	Clotted Sample Clear Serum	Unclothed, Haemolysed serum	5 days	Transported at ± 4°C - 8°C	7 work days

<sup>1</sup> *B abortus*, *B ovis* and *B melitensis* CFT is ONLY performed on a Thursday. Samples must reach the laboratory by 14h00 on a Wednesday to be included in the Thursday test batch.

<sup>2</sup> Dourine CFT is ONLY performed on a Tuesday. Samples must reach the laboratory by 14h00 on a Friday to be included in the next Tuesday test batch.

<sup>3</sup> The last day of the week for submitting milk samples will be on a Thursday, no milk will be tested on a Friday.

<sup>4</sup> Not in the scope of SANAS accreditation for this laboratory.

### VIROLOGY

Dr Kokie Harris, Tel: 0218087538, email: Kokie.Harris@westerncape.gov.za

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Turn-around time
Virus isolation for: # Avian influenza, # Newcastle disease, Bluetongue, Infectious laryngotracheitis, Infectious Bronchitis, Pox, Avian pneumovirus, Chlamydia, Other (please contact laboratory)	# Organs	Isolation in eggs	R814.00/ virus isolated	Fresh organs only	Decomposed organs Organs in formalin	24 hrs (may be longer, depending on virus type)	Transported at ± 4°C-8°C	2-7 weeks
	# Swabs in fluid	Isolation in eggs		Single/pooled swabs in virus transport medium	Swabs in unsuitable fluid	24 hrs (may be longer, depending on virus type)	Transported at ± 4°C-8°C	2-7 weeks