



Effective 1 April 2018 – 31 March 2019

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

General contact information:

The diagnostic testing services available are tabulated according to the laboratory sections.

For general enquiries regarding the testing services listed, please contact the reception on Tel: 021 8870324 to direct queries to the relevant laboratory section.

Submission of specimens:

The various submission forms are available from the laboratory Tel: 021 8870324 Fax: 021 886 5341 and on the website:

<http://www.elsenburg.com/services-and-programmes/veterinary-services-0#s=Veterinary-Laboratory-Services>

A completed sample submission form must accompany each submission for each animal species. Please complete the form in detail including all information with each submission. **Samples will not be released for testing until full client information is provided.**

Please make use of specific laboratory forms for: Bovine Brucellosis MRT, Caprine & Ovine Brucellosis CFT and Dourine CFT testing. A BR5 must accompany Bovine Brucellosis testing (RBT; CFT). (BR5 forms are available from your local State Veterinarian).

An accurate diagnosis 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 (age, vaccinations, medication, date of sampling, number of animal deaths, etc.).

Sample packaging should comply with specimen transport regulations. 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.

Please indicate high risk cases (e.g. rabies, abortions due to Brucellosis), clearly.



Address:

Courier or hand delivery:

Western Cape Provincial Veterinary Laboratory
Helshoogte Road
Stellenbosch
7600

Fees:

All fees listed are VAT exempt. 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.

Controlled and notifiable animal disease testing and reporting:

Please note that it is compulsory for all laboratories performing tests for controlled and notifiable diseases to report incidence of positive or suspected incidence of controlled and notifiable diseases to the Department of Agriculture as per amendments to Regulation 12, Section 31, of the Animal Diseases Act, Act 35, 1984.

Results of controlled and notifiable diseases (Positive and suspect cases) will be sent to the state veterinarian or to the state veterinarian and private veterinarian or laboratory simultaneously. Should the state veterinarian be unavailable, the report will be sent to the Department of Agriculture Forestry and Fisheries (DAFF).

DAFF requires full and comprehensive details for reporting of results for controlled and notifiable diseases. Please ensure that the latest edition of the laboratory sample submission form is completed in full. Samples must be submitted with full owner details (Name, physical address, contact information) to ensure that results are reported to the applicable State Veterinarian.

SANAS accreditation and DAFF approval

SANAS accredited and DAFF approved test methods are indicated by means of # where applicable

SANAS accreditation number: V0029. DAFF approval number: 0029.

Please refer to the latest schedule of accreditation on the SANAS website for accredited test methods and the applicable sample types (<http://home.sanas.co.za/>).

DIAGNOSTIC TESTING SERVICES PER LABORATORY SECTION

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SEROLOGY								
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 Bengel Test (RBT)	R9.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed serum	5 days	Transported at \pm 4°C - 8°C, preferably couriered and not posted	10 work days
		CFT	R25.00/ test					10 work days
# <i>Brucella abortus</i> (Bovine)	Raw full cream milk \geq 5ml	MRT	R5.00/ test	Raw full cream milk \geq 5ml or 2 ml preserved with formalin	Sour milk , Milk with insufficient cream Colostrum Pasteurised milk Homogenised milk Bloody milk	3 days	Transported at \pm 4°C - 8°C, preferably couriered and not posted	5 work days
<i>Brucella melitensis</i> (Caprine; Ovine)	Whole clotted blood 6-10ml / Serum - 3 ml	CFT	R25.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed	5 days	Transported at \pm 4°C - 8°C, preferably couriered and not posted	10 work days
<i>Brucella ovis</i> (Ovine)	Whole clotted blood 6-10ml / Serum - 3 ml	CFT	R26.00/ test	Clotted Sample, Clear serum	Unclothed, Haemolysed	5 days	Transported at \pm 4°C - 8°C, preferably couriered and not posted	10 work days
# Newcastle Disease Virus (NCD/ NDV) (Avian, Ostrich)	Whole clotted blood 6-10ml / Serum - 3 ml	HI	R12.00/ antigen	Clotted Sample Clear Serum	Unclothed, Haemolysed	3 days	Transported at \pm 4°C - 8°C or at ambient temperature, preferably couriered and not posted	10 work days
# Avian influenza Virus (Avian, Ostrich)	Whole clotted blood 6-10ml / Serum - 3 ml	HI	R25.00 / antigen	Clotted Sample Clear Serum	Unclothed, Haemolysed	3 days	Transported at \pm 4°C - 8°C, preferably couriered and not posted	10 work days
# Influenza A virus antibody (Avian, Ostrich)	Whole clotted blood 6-10ml / Serum - 3 ml	ELISA	R35.00/ test	Clotted Sample Clear Serum	Unclothed. Haemolysed	3 days	Transported at \pm 4°C - 8°C, preferably couriered and not posted	7 work days



VIROLOGY								
Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Average turn-around time
Virus isolation # Avian influenza, # Newcastle disease, Bluetongue, Infectious laryngotracheitis, Infectious Bronchitis, Pox, Avian metapneumovirus, Chlamydothila. Other (please contact laboratory)	Organs	Isolation in eggs	R572.00/ virus isolated	Fresh organs only	Decomposed organs Organs in formalin	24 hours (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 hours (may be longer, depending on virus type)	Transported at ± 4°C-8°C	2-7 weeks

PCR (MOLECULAR)								
Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
# Avian Influenza Virus A	Trachea, cloaca, tissue swab (PCR rayon / cotton tipped, plastic shaft swab) Tissue (trachea, organs)	Screening Matrix gene rRT-PCR	R300.00/ test	Trachea, cloaca, tissue swab (PCR rayon / cotton tipped, plastic shaft swab) Tissue (trachea, organs)	Whole blood, serum, unsuitable swab (e.g. wooden shaft, bacterial swab)	24-48 hours	Transported at ± 4°C-8°C	7 work days
		Additional H5 subtype rRT-PCR	R190.00/ test					
		Additional H7 subtype rRT-PCR	R190.00/ test					
African Horse Sickness Virus	Blood, tissue	Screening VP7 gene rRT-PCR	R284.00/ test	Blood, uncoagulated EDTA only, Tissue (lung, spleen)	Blood (Heparin), Serum	24-48 hours	Transported at ± 4°C-8°C	7 work days
# Newcastle Disease Virus	Trachea, cloaca, tissue swab (PCR rayon / cotton tipped, plastic shaft swab) Tissue (trachea, organs)	Screening Matrix rRT-PCR	R285.00/ test	Trachea, cloaca, tissue swab (PCR rayon / cotton tipped, plastic shaft swab) Tissue (trachea, organs)	Whole blood, serum, unsuitable swab (e.g. wooden shaft, bacterial swab)	24-48 hours	Transported at ± 4°C-8°C	7 work days
		NDV detection & Pathotype RT-PCR	R397.00/ test					



BACTERIOLOGY								
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 (anaerobic or aerobic)	Organs Swabs Aspirates, Faeces, Blood, Skin, Tissue	Bacteriological culture Biochemical identification	R354.00/ 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
# Salmonella monitoring, culture and identification	Litter - 25 grams Meconium - 10 grams Organs - 1 gram / swab Stomach content Aspirates / fluids	Selective culture Biochemical identification	R354.00/ 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	Milk - 20ml Lymph Nodes Blood 5ml Stomach contents	Bacteriological culture Biochemical identification	R306.00/ 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 B. canis: 25 work days
Antibiogram	Bacterial isolate	Antibiogram	R104.00/ test	24 hr Bacterial culture on non-selective medium	> 24 hours bacterial culture Mixed culture	-	Transported at ± 4°C-8°C	5 work days

FOOD SAFETY (VETERINARY PUBLIC HEALTH)								
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	R95.00/ sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	7 work days
	# Dry Feed / Foodstuff 50g	Aerobic culture and count	R95.00/ sample	Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ambient temperature	10 work days
	Rodac / contact / exposure Plate [available from	Aerobic culture and count	R95.00/ sample	Plate clearly labelled	Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	5 work days



FOOD SAFETY (VETERINARY PUBLIC HEALTH)								
Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
	[lab]							
	Environmental swabs	Aerobic culture and count	R95.00/sample	Swabs in transport medium, clearly labelled	Dry swab	24 Hrs	Transported at ± 4°C-8°C	5 work days
<i>E. coli</i> count	# Meat 100g	Aerobic culture and count	R118.00/sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	7 work days
	# Dry Feed / Foodstuff 50g	Aerobic culture and count	R118.00/sample	Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ambient temperature	10 work days
	Environmental swabs	Aerobic culture and count	R118.00/sample	Swabs in transport medium, clearly labelled	Dry swab	24 Hrs	Transported at ± 4°C-8°C	7 work days
<i>Salmonella</i> spp.	# Meat 100g	Aerobic culture and isolation, detection	R165.00/sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	10 work days Salmonella typing referred to ARC-OVI on request
	# Dry Feed / Foodstuff 50g	Aerobic culture and isolation, detection	R165.00/sample	Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ambient temperature	10 work days Salmonella typing referred to ARC-OVI on request
	Environmental swabs	Aerobic culture and isolation, detection	R165.00/sample	Swabs in transport medium, clearly labelled	Dry swab	24 Hrs	Transported at ± 4°C-8°C	10 work days
<i>Enterobacteriaceae</i>	# Meat 100g	Aerobic culture and count	R118.00/sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	7 work days



FOOD SAFETY (VETERINARY PUBLIC HEALTH)								
Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
	# Dry Feed / Foodstuff 50g	Aerobic culture and count	R118.00/sample	Dry feed, clearly labelled	Wet, damp specimen Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ambient temperature	10 work days
	Rodac / contact / exposure Plate [available from lab]	Aerobic culture and count	R118.00/sample	Plate clearly labelled	Sample which has not been packaged correctly Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	5 work days
	Environmental swabs	Aerobic culture and count	R118.00/sample	Swabs in transport medium, clearly labelled	Dry swab	24 Hrs	Transported at ± 4°C-8°C	10 work days
<i>Listeria monocytogenes</i>	Meat 100g	Aerobic culture and isolation, detection	R205.00/sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	14 work days
	Dry Feed / Foodstuff 50g	Aerobic culture and isolation, detection	R205.00/sample	Dry feed, clearly labelled	Moist, damp specimen Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ambient temperature	14 work days
	Environmental swabs	Aerobic culture and count	R205.00/sample	Swabs in transport medium, clearly labelled	Dry swab	24 Hrs	Transported at ± 4°C-8°C	14 work days
Antibiotic residue	Meat 100g	<i>B. subtilis</i> growth inhibition	R50.00/sample	Fresh specimen clearly labelled	Decomposed sample Cold chain not maintained Packaging compromised (exposure to environmental contamination)	24 Hrs	Transported at ± 4°C-8°C	7 work days
Aerobic plate count (Water)	Water 1000ml	Aerobic culture and count	R95.00/sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24 Hrs	Transported at ± 4°C-8°C or at ambient temperature	5 work days
Total Coliforms (Water)	Water 1000ml	Aerobic culture and count	R106.00/sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24 Hrs	Transported at ± 4°C-8°C or at ambient temperature	5 work days



FOOD SAFETY (VETERINARY PUBLIC HEALTH)

Test method	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Faecal coliforms & E. Coli (Water)	Water 1000ml	Aerobic culture and count	R230.00/sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24 Hrs	Transported at ± 4°C-8°C or at ambient temperature	5 work days
Faecal Streptococci (Water)	Water 1000ml	Aerobic culture and count	R137.00/sample	Water in a sterile sampling container	Dirty, unsterile sample containers	24 Hrs	Transported at ± 4°C-8°C or at ambient temperature	5 work days

BIOCHEMISTRY

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Feed analysis: minerals (Ca, Mg, P, Cu, Fe, Zn, Mn, Na, K)	Feed (100g)	Atomic Absorption Spectrometry	R102.00/element / sample	Feed in a secure, clean plastic / paper bag	Wet, badly packed samples	within 48 hours	Ambient temperature	15 work days
Feed analysis: minerals Selenium	Feed (100g)	Fluorescence Spectrometry	R129.00/element / sample	Feed in a secure, clean plastic / paper bag	Wet, badly packed samples	within 48 hours	Ambient temperature	20 work days
Organ (Liver, kidney): minerals (Ca, Mg, P, Cu, Fe, Zn, Mn.)	Liver / kidney (100g)	Atomic Absorption Spectrometry	R32.00/element / sample	Fresh organs on ice Organs in 7-10% unbuffered Formalin, clean leak-proof sample bottle, sealed plastic bag	decomposed samples, 7-10% buffered formalin	within 24 hours	Fresh samples - frozen organs on ice	15 work days
Organ (Liver, kidney): minerals Selenium	Liver / kidney (100g)	Fluorescence Spectrometry	R115.00/element / sample	Fresh organs on ice Organs in 7-10% unbuffered Formalin, clean leak-proof sample bottle, sealed plastic bag	decomposed samples, 7-10% buffered formalin	within 24 hours	Fresh samples - frozen organs on ice	20 work days
Bone minerals: Ca, Mg, P; Bone ash	Bone (50g)	Atomic Absorption Spectrometry	R86.00/element / sample	Fresh bone frozen (kept on ice), clean sample container, leak-proof	bone with muscle tissue attached; bone in formalin	within 48 hours	Fresh samples - frozen, transport on ice on ice	20 work days
Serum / Plasma: Total Protein	Plasma / Serum (5-10ml)	Automated dry chemistry instrument (spectrometry)	R71.00/sample	Serum (Red / Yellow top), Plasma separated from Whole blood (Heparin – Green top / EDTA – lavender / purple top).	Haemolysed serum / plasma with or without clot	within 24 hours	4°C-8°C	10 work days
Serum / Plasma: Albumin/Globulin	Plasma / Serum (5-10ml)	Automated dry chemistry instrument	R71.00/sample	Serum (Red / Yellow top), Plasma	Haemolysed serum / plasma with or without	within 24 hours	4°C-8°C	10 work days



BIOCHEMISTRY								
Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
		(spectrometry)		separated from Whole blood (Heparin – Green top / EDTA – lavender / purple top).	clot			
Serum / Plasma: Blood urea nitrogen	Plasma / Serum (5-10ml)	Automated dry chemistry instrument (spectrometry)	R60.00/ sample	Serum (Red / Yellow top), Plasma separated from Whole blood (Heparin – Green top / EDTA – lavender / purple top).	Haemolysed serum / plasma with or without clot	within 24 hours	4°C-8°C	10 work days
Serum: Gamma-Globulin	Serum (5-10ml)	spectrometry (turbidity)	R47.00/ sample	Serum (Red / Yellow top), preferably separated from clot	Plasma, Whole blood, Haemolysed serum	within 24 hours	4°C-8°C	10 work days
Serum: Enzymes GGT AST CK	Serum (5-10ml)	Automated dry chemistry instrument (spectrometry)	R80.00/ enzyme /sample	Serum (Red / Yellow top), preferably separated from clot	Plasma, Whole blood, Haemolysed serum	within 24 hours	4°C-8°C	7-10 work days
Serum minerals: Cu, Zn	Serum (5-10ml)	Atomic Absorption Spectrometry	R32.00/ element / sample	Serum (Red / Yellow top), preferably separated from clot	Haemolysed serum with or without clot	within 24 hours	4°C-8°C	15 work days
Serum minerals: Ca, Mg, P, Na, K, Fe, Cl	Serum (5-10ml)	Automated dry chemistry instrument (spectrometry)	R32.00/ element / sample	Serum (Red / Yellow top), preferably separated from clot	Haemolysed serum with or without clot	within 24 hours	4°C-8°C	15 work days
Whole blood: Selenium	Whole Blood (5-10ml)	Fluorescence Spectrometry	R51.00/ element / sample	Whole blood (Heparin – Green top / EDTA – lavender / purple top)	Clotted blood sample, serum	within 24 hours	4°C-8°C	20 work days
pH	Rumen contents, water (50ml)	pH meter	-	Clean plastic bottle	Dirty contaminated sample container	within 48 hours	4-8°C or ambient temperature	10 work days
Haematocrit (Packed cell volume)	Whole Blood (5-10ml)	Haematocrit centrifuge	R7.00/ sample	Whole blood (preferably EDTA – lavender / purple top)	Clotted blood sample, serum	within 24 hours	4°C-8°C	10 work days

TOXICOLOGY								
Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
Nitrate/Nitrite	5ml eye fluid / serum	Spot test, qualitative	R31.00/ sample	Samples In separate sterile containers. Blood	Samples older than 24 hrs	within 12-24 hours	4°C-8°C	3 work days



TOXICOLOGY

Test/s required	Sample Type & Size	Assay	Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirements	Maximum turn-around time
				in Heparin.				
Ryegrass toxicity	Grass with ripe seed	Microscopic examination	R66.00/sample	Sample must be representative of feed batch	Grass with immature seed	Not applicable	Ambient temperature	3 work days



HISTOPATHOLOGY								
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	R400.00 / case	Fresh sample	Decomposed or dried out samples	1 week	Must be in a watertight container	20 work days
	Organs: Maximum 10mm thickness.		(max 5 cassettes)	Correct size	Incorrect size			
	Whole brain to be fixed in formalin for longer period.	Processing and staining only	R290.00 / case	A 10% neutral buffered formalin solution	Incorrect formalin solution			
	Ratio of sample to formalin must be 1:10		(max 5 cassettes)	Sample must be totally covered in formalin				
				Minimal organic soiling of formalin				

PATHOLOGY (POSTMORTEM / NECROPSY)								
* 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	Large animal (adult) R900.00 / animal Small stock, dog, cats, immature large animal: R570 / animal Poultry/ Birds: R450.00 / 1-5 birds Ostrich, Adult: R900.00 / ostrich Ostrich, immature: R450 /1-5 ostriches Foetus R660.00 / foetus (includes Brucellosis investigation ONLY), additional referral testing for client account Reptiles / Exotics (excluding fish) R570.00 / animal	Whole animal carcass	Advanced decomposition	24 hrs	None	Prelim findings: within 4 work days (Telephonic, email, fax). Final Report: within 20 work days; Final report findings may be delayed by laboratory test results. Please contact the laboratory for an update.



PATHOLOGY (POSTMORTEM / NECROPSY)

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Test/s required	Sample Type & Size	Assay	* Fee	Suitable Sample	Unsuitable Sample	To reach the lab within:	Transport Requirement	Turn-around time
			After Hours, Adult large animal: R1800.00 / animal * Referral / subcontractor testing (may be subject to additional laboratory test fees).					
Pathology investigation: Rabies	Whole animal carcass or head	Necropsy and collection of Rabies samples Referral testing	-	Clearly marked as High risk Whole animal carcass	Advanced decomposition	24 hrs	Clearly marked as High risk	On request Samples submitted for referral testing at ARC-OVI



**Western Cape
Government**

Agriculture

VETERINARY LABORATORY SERVICES

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Appendix 7 Edition 09	ACCEPTANCE: R Pieterse (Quality controller)	AUTHORIZATION: FH Dreyer (Technical Manager)	AUTHORIZATION DATE: 2018/04/01	Page 14 of 14
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