

DIAGNOSTIC PRICELIST

01 APRIL 2024 / 31 MARCH 2025



**MONDAY TO FRIDAY
FROM 07:30 - 16:00
CLOSED ON PUBLIC HOLIDAYS**

**ARC - ONDERSTEPSPOORT
VETERINARY RESEARCH CAMPUS**

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GENERAL INFORMATION

Available diagnostic services and tests performed by the Agricultural Research Council – Onderstepoort Veterinary Research (ARC-OVR) Campus are grouped and tabulated in accordance with the organization of specialities within the ARC-OVR.

Clients are encouraged to verify on the SANAS website for the updated scope of accreditation for each method.

ENQUIRIES

- ❖ For general enquiries regarding submissions and other information, please contact the Diagnostic Registration Office on +27 (0) 12 529-9272.
- ❖ For enquiries concerning **Foot-and-mouth disease** and **African swine fever**, contact the ARC-OVR-Transboundary Animal Diseases Laboratory (TADS) on +27 (0) 12 529-9585 during office hours. TADS is manned 24 hours per day; the after-hours number is +27 (0) 12 529-9574 (Security Office).

SUBMISSION OF SPECIMENS

The various submission forms are available on the ARC website <http://www.arc.agric.za> or from the Diagnostic Registration Office (+27 (0) 12 529-9272 or e-mail: diagreg@arc.agric.za). Should the general submission form not be available, the specimens must be accompanied by a covering letter. This letter should include relevant information concerning the owner, name and district of the farm, animal(s) involved, history, symptoms of illness and postmortem lesions. Test(s) required must be indicated. Please make use of the specific forms for the following tests: Bovine Brucellosis, Dourine, Rabies FAT and serum neutralizing test. All other specimens must be accompanied by the **General Submission form**. These forms are available electronically in MD-Word format for typing. If you cannot type the electronic version, kindly write legible in order for the laboratories to correctly interpret the handwriting. If you are sending more than one sample, send a list with the sample and identification numbers.

An accurate diagnosis depends on the provision of proper specimens. Please contact the relevant laboratory if you require guidance. Specimens should be sent to the ARC-OVR as soon as possible, and when necessary, courier service should be used. **Sample packaging must comply with the Specimen Transport Packaging Regulations.**

Specimens may be submitted after hours **preferably by prior notification of the section involved**, and in such case, they should be delivered to the Security Office.

Specimens for the diagnosis of **Foot-and-mouth disease (FMD)** and **African swine fever (ASF)** should only be sent in collaboration with the local State Veterinarian (see below), and should always be delivered directly to the ARC-OVR-TADS. Specimens that should be **kept cool** during transport should be refrigerated first at 4°C and then sent packed on frozen cool packs.

Important information

All relevant documentation should be attached securely to the outside of the package.

Please mark high-risk cases like Rabies and FMD, clearly.

ADDRESS

- (a) The address for all submissions (**except for Foot-and-mouth disease (FMD) and African swine fever (ASF)**) is:

ARC-Onderstepoort Veterinary Research, 100 Old Soutpan Road, Onderstepoort, 0110

- (b) The address for the submission of specimens for the diagnosis of **Foot-and-mouth disease (FMD) and African swine fever (ASF)** is:

ARC-Onderstepoort Veterinary Research, Transboundary Animal Diseases Laboratory, 100 Old Soutpan Road, Onderstepoort, 0110

RESULTS

Results of diagnostic tests will be transmitted by fax or email where possible, and will be followed by a posted report (if so required). **Remember that all controlled and notifiable animal diseases results, will be faxed or e-mailed to the relevant State Veterinarian office and the submitting Veterinarian (if available). The original report will be posted (if required) to the relevant State Veterinarian office.**

PRICE AND PAYMENTS

All prices include 15% VAT.

Non-account holders must obtain a quotation for payment before sample(s) is submitted for testing. Account holders will receive an invoice for payment after the test(s) is completed.

BANKING DETAILS

Name of accountholder:	ARC-OVR
Bank:	Standard Bank
Branch:	Pretoria North
Account number:	011310383
Branch code:	010445
Branch code (electronic payments):	051001
SWIFT address:	SBZA ZA JJ

PLEASE NOTE

- ❖ You are responsible for the bank costs if you are making the payment by foreign bank draft; please ensure that your payment includes this cost.
- ❖ Prices may change without notice due to currency fluctuations.
- ❖ The ARC-OVR may use information resulting from the diagnostic processing of specimens for further research purposes.
- ❖ Service will only be rendered in terms of the ARC-OVR's Standard Terms and Conditions.
- ❖ Load-shedding: Turnaround times as set-out in the pricelist may be impacted by load-shedding.

ARC-OVR DIAGNOSTIC PRICELIST: 01 APRIL 2024 - 31 MARCH 2025

All prices are per case or per isolate unless stipulated differently. Clients are very welcome to discuss prices with us prior to sample submission, if uncertainty exists about the likely cost of a case.

BACTERIAL SEROLOGY				
Dr. Itumeleng Matle Tel: +27(0) 12 529-9394/137 • Matlel@arc.agric.za Centrifuged Yellow stopper tubes with gel are preferred Microchip numbers: Barcode stickers to be submitted with submission form				
Test	Method No.	Unit	Price Incl. VAT	Average turnover time
BOVINE only (Red /Yellow stopper tube only)				
<i>Brucella abortus</i> Rose Bengal test & SAT	BS/ME001, 004	/ sample	R 56-00	5-7 work days
<i>Brucella abortus</i> Rose Bengal test Or SAT only	BS/ME001, 004	/ sample	R 31-00	5-7 work days
<i>Brucella abortus</i> CFT	BS/ME005	/ sample	R 43-00	7-10 work days
<i>Brucella abortus</i> Milk-ring test (Milk with sufficient cream)	BS/ME003	/ sample	R 46-00	5-7 work days
CBPP CFT	BS/ME007	/ sample	R 97-00	7-10 work days
OVINE only (Red / Yellow stopper tube only)				
<i>Brucella ovis</i> CFT	BS/ME005	/ sample	R 61-00	7-10 work days
CANINE only (We only accept yellow top tubes already centrifuged and the serum must be clear. NO red top tubes with blood clots will be accepted.)				
<i>Brucella canis</i> Tube Agglutination Test	BS/ME011	/ sample	R 1 108-00	5-7 days Tue & Wed by 11:00 in the lab
EQUIDS only (Red / Yellow stopper tube only)				
Dourine CFT	BS/ME005	/ sample	R 197-00	7-10 days Thursday by 10:00 in the lab
**Glanders CFT	BS/NME012	/ sample	R 736-00	7-10 days Thursday by 10:00 in the lab
ALL SPECIES				
Leptospirosis canine microscopic slide agglutination test (MAT) We only accept yellow top tubes already centrifuged and the serum must be clear. NO red top tubes with blood clots will be accepted.	BS/ME002	/ sample	On Request	5-7 work days Wednesday by 8:00 in the lab
Leptospirosis other microscopic slide agglutination test (MAT) (Red / Yellow stopper tube only)	BS/ME002	/ sample	On Request	5-7 work days Wednesday by 8:00 in the lab
**Bovine Export & Non-Bovine (Red / Yellow stopper tube only)				
** <i>Brucella melitensis</i> CFT	BS/NME005/001/004	/ sample	R 100-00	7-10 work days
** <i>Brucella suis</i> CFT				
** <i>Brucella abortus</i> Rose Bengal test & SAT	BS/ME001, 004	/ sample	R 120-00	5-7 work days
** <i>Brucella suis</i> RBT & SAT	*BS/NME001, 004			
<i>Brucella abortus</i> Rose Bengal test Or SAT only	BS/ME001, 004	/ sample	R 58-00	5-7 work days
	*BS/NME001, 004			
<i>Brucella abortus</i> CFT	BS/ME005	/ sample	R 96-00	7-10 work days
	*BS/NME005			
**Non-ovine (Red / Yellow stopper tube only)				
** <i>Brucella ovis</i> CFT	BS/NME005	/sample	R 61-00	7-10 work days
**Non-equids (Red / Yellow stopper tube only)				
** Dourine CFT	BS/NME005	/ sample	R 197-00	7-10 days Thursday
Other				
** <i>Leptospira</i> spp. isolation			On Request	
Printing of additional report/s		/ job	R 245-00	1 work day

**Non-accredited tests

BACTERIOLOGY - GENERAL

Dr. Alison Lubisi

Tel: +27(0) 12 529-9381/137 • LubisiA@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT	Average turnover time
Sheath wash examination				
** <i>C. fetus</i> or <i>T. foetus</i> culture	BLME003, BLME005	/ sample	R 628-00	7-10 work days
** <i>C. fetus</i> and <i>T. foetus</i> culture	BLME003 BLME005	/ sample	R 525-00	7-10 work days
Brucella spp				
Isolation on culture	BLME004	Up to 3 samples	R 630-00	7-10 work days
Typing	BLME004	Up to 3 samples	R 650-00	7-10 work days
Aerobic culture (isolation & identification)	BLME001	Up to 3 samples	R 599-00	7-10 work days
Anaerobic culture (isolation & identification)	BLME002	Up to 3 samples	R 646-00	7-10 work days
**Antibiogram	BLME 014	/ sample	R 298-00	2 work days
<i>Bacillus anthracis</i> (<i>Anthrax</i>)	BL/ME 007	/ sample	R 743-00	3-4 work days
**Examination of smears		/ smear	R 403-00	1 work day
Bacterial typing				
<i>Salmonella</i> spp	DFP9709	/ sample	R 980-00	3-5 work days
** <i>Actinobacillus pleuropneumonia</i>		/ sample	R 605-00	3-5 work days
FAT (<i>Clostridium</i> spp)	DFP9712	/ sample	R 610-00	3-5 work days
**Clostridium botulinum toxin determination				
** Screening test	BLME008	/ sample	R 1 590-00	7-10 work days
Contagious equine metritis (CEM)	BLME 010	Up to 3 swabs	R 956-00	7-10 work days
**Fungus (isolation & identification)		/ sample	R 904-00	1-3 weeks
** <i>Mycoplasma</i> spp (isolation & identification)		/ sample	R 945-00	3-4 work days
**Fish Bacterial Kidney Disease	BL/ME 012	/ sample	R 733-00	6-8 weeks
**Total Bacterial Cell count of semen sample	BL/ME 013	/ sample	R 632-00	7-10 work days

**Non-accredited tests

BACTERIOLOGY - PCR LABORATORY

Dr. Nomakorinte Gcebe

Tel: +27(0) 12 529-9140 • GcebeN@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT	Average turnover time
<i>C. perfringens</i> typing PCR from culture	BPME004	/ sample	R 636-00	4 work days
DNA extraction and purification	BPME001	/ sample	R 405-00	1 work day
<i>E.coli</i> O157 PCR from culture	BPME006	/ sample	R 590-00	4 work days
<i>Brucella</i> spp. Screening PCR from culture	BPME003	/ sample	R 540-00	3 work days
<i>Brucella</i> identification including vaccine strains	BPME003	/ sample	R 735-00	3 work days
<i>B. anthracis</i> screening (from culture) PCR	BPME005	/ sample	R 556-00	3 work days
<i>B. anthracis</i> identification and virulence typing PCR	BPME005	/ sample	R 846-00	2 work days
<i>T. foetus</i> and <i>C.fetus</i> PCR	BPME002	/ sample	R 718-00	4 work days
<i>T. foetus</i> or <i>C.fetus</i> PCR	BPME002	/ sample	R 655-00	4 work days
** <i>Salmonella</i> Gallinarum / Enteritidis PCR	BPME008	/ sample	R 663-00	3 work days
** <i>P. multocida</i> type D PCR from culture	BPME007	/ sample	R 561-00	4 work days
Contagious equine metritis (CEM) PCR	BPME009	/ sample	R 648-00	4 work days
** <i>Listeria monocytogenes</i> (serogrouping and serotyping) PCR	BPME012	/ sample	R 523-00	4 work days
Supply of bacterial and protozoan DNA		/ 50 or 100 ul	R 512-00	3 work days
** <i>Coxiella burnetii</i> (q fever) PCR from culture, organs, swabs, fluids	BPME013	/ sample	R 554-00	3 work days

**Non-accredited tests

BIOTECHNOLOGY - PCR LABORATORY

Dr. Marco Romito

Tel: +27(0) 12 529-9252 • RomitoM@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT	Average turnover time
Nucleic Acid Extraction		/ sample	R 142-00	1 work day
African horse sickness virus (real-time RT-PCR)*	ME-015A	/ sample	R 359-00	3 work days
African horse sickness virus (hemi-nested RT-PCR)*	ME-015B	/ sample	R 385-00	7 work days
African horse sickness virus Serotype Multiplex *		/ sample	R 1 542-00	3 work days
Bluetongue virus (real-time RT-PCR)		/ sample	R 331-00	3 work days
Bovine ephemeral fever virus (nested RT-PCR)		/ sample	R 361-00	3 work days
Bovine herpesvirus 1 (real-time PCR)		/ sample	R 361-00	3 work days
Bovine leukaemia virus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Bovine viral diarrhoea virus (real-time RT-PCR)		/ sample	R 432-00	3 work days
Chlamydia (nested PCR)		/ sample	R 377-00	3 work days
Crocodile poxvirus (real-time PCR)		/ sample	R 324-00	3 work days
Equine encephalosis virus (real-time RT-PCR)		/ sample	R 361-00	3 work days
Equine herpes virus 1 & 4		/ sample	R 361-00	3 work days
Infectious bursal disease (real-time RT-PCR)		/ sample	R 361-00	3 work days
Infectious bursal disease: vaccine and very virulent RT-PCR		/ sample	R 432-00	3 work days
Influenza A viruses (real-time RT-PCR)	ME-016	/ sample	R 305-00	3 work days
Influenza A H5 and H7 subgroups (real-time RT-PCR)		/ sample	R 447-00	3 work days
Influenza A subtyping: one H or one N subgroup (real-time RT-PCR)		/ sample	R 309-00	3 work days
Infectious bronchitis virus (real-time RT-PCR)		/ sample	R 334-00	3 work days
Jaagsiekte retrovirus (real-time RT-PCR)		/ sample	R 317-00	3 work days
Leptospira spp- (real-time PCR)		/ sample	R 361-00	3 work days
Lumpy skin disease virus (real-time PCR)	ME-010	/ sample	R 361-00	3 work days
Marek's disease virus PCR		/ sample	R 326-00	3 work days
Mycoplasma PCR or M. mycoides mycoides SC PCR		/ sample	R 294-00	3 work days
Newcastle disease virus-serogroup* (real-time RT-PCR)	ME-005	/ sample	R 311-00	3 work days
Newcastle disease avirulent and virulent* (hemi-nested RT-PCR)	ME-003	/ sample	R 454-00	3 work days
Newcastle disease avirulent or virulent or pigeon paramyxovirus* (hemi-nested RT-PCR)	ME-003	/ sample	R 340-00	3 work days
Rabbit haemorrhagic fever virus (real-time PCR)		/ sample	R 315-00	3 work days
Rift Valley fever virus* (real-time RT-PCR)	ME-008	/ sample	R 361-00	5 work days
Sanger sequencing		/ sample	R 418-00	3 work days
West Nile virus (real-time RT-PCR)		/ sample	R 385-00	3 work days
Wesselsbron virus (real-time RT-PCR)		/ sample	R 342-00	3 work days
Wildebeest- and sheep-associated malignant catarrhal fever viruses* PCRs	ME-013	/ sample	R 444-00	3 work days
Wildebeest- or sheep-associated malignant catarrhal fever viruses* PCR		/ sample	R 330-00	3 work days
Epizootic haemopoietic necrosis virus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Infectious haemopoietic necrosis virus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Infectious pancreatic necrosis virus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Infectious salmon anaemia virus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Koi herpesvirus (real-time RT-PCR)		/ sample	R 326-00	3 work days
Piscine orthoreovirus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Renibacterium salmoninarum (real-time -PCR)		/ sample	R 300-00	3 work days
Salmonid alphavirus (real-time RT-PCR)		/ sample	R 325-00	3 work days
Tilapia lake virus(real-time RT-PCR)		/ sample	R 325-00	3 work days
Viral haemorrhagic septicaemia virus(real-time RT-PCR)		/ sample	R 325-00	3 work days
Viral nervous necrosis virus (real-time RT-PCR)		/ sample	R 325-00	3 work days

Note: *ISO17025 accredited tests - Nucleic acid extractions are charged separately - Whole blood in EDTA rather than serum is the preferred blood sample - Swabs should be placed in a viral transport medium or alternatively PBS - If not possible, send dry but keep cold - Synthetic fibre swabs are preferable to cotton - Avoid bleached cotton swabs or swabs with wooden shafts - For influenza A virus testing for avian exports collect both oropharyngeal and cloacal swabs.

BSE LABORATORY

Dr. Munangatire Mparamoto

Tel: +27(0) 12 529-9493 • MparamotoM@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT	Average turnover time
**BSE surveillance	BSEME002	/ sample	R 1 150-00	30 days
Printing of additional reports		/ job	R 245-00	1 work day

****Non-accredited tests**

EPIDEMIOLOGY, PARASITES AND VECTORS - ACAROLOGY

Ms. Dikeledi Matloa

Tel: +27(0) 12 529-9210 • MatloaD@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
Identification of ticks	/ specimen	R 250-00	2 work days
More than one specimen	/ hour	R 684-00	10 work days
Tick Identification Course (per person per day)		R 4 836-00	
Tick Identification Kit (8 reference specimens)		R 1 797-00	

Large consignments of tick specimens – organize with Ms. Dikeledi Matloa

EPIDEMIOLOGY, PARASITES AND VECTORS - ENTOMOLOGY

Dr. Karien Labuschagne

Tel: +27(0) 12 529-9177 • LabuschagneK@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
Identification of insects	10/batch	R 340.00	2-5 work days
Production and sale of light traps to catch biting midges (Price excludes postage and packaging)	/1	R 4 714.00	Produced on order
Sale of light trap top and bottom net sets	/1	R 310.00	10 working days

EPIDEMIOLOGY, PARASITES AND VECTORS - HELMINTHOLOGY

Dr. Kerstin Junker

Tel: +27(0) 12 529-9215 • JunkerK@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
**Direct Faecal Flotation (Faecalysers)	1/sample	R 155-00	2 work days
**McMaster Nematode Egg Count	1/sample	R 138-00	2 work days
**Larval Culture and Identification of Infective Larvae of Ruminants	1/sample	R 492-00	14 work days
**Pitchford/Visser Trematode Egg Count	1/sample	R 188-00	2 work days
**Identification of Prevalent Helminths	1/sample	R 301-00	5 work days
**Identification of Less Prevalent Helminths	1/sample	R 429-00	5 work days
**Training in Basic Helminth Diagnostics	Per person per day	R 1 675-00	-

****Non-accredited tests**

EPIDEMIOLOGY, PARASITES AND VECTORS

Mr. Brian Peba

Tel: +27(0) 12 529-9427 • PeBaB@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT	Average turnover time
**Smear examination	n/a	/ smear	R 231-00	3 work days
For Serological (IFAT/CATT) tests we require 1-2 ml sample in Red / Yellow stopper tube only				
Bovine babesiosis IFAT (1 - 19) (<i>Babesia bovis</i> & <i>Babesia bigemina</i>)	SOP Ser 1	/ sample	R 197-00	5 work days
Bovine babesiosis for herd IFAT (minimum 20 samples per herd)	SOP Ser 1	/ sample	R 127-00	5 work days
**Heartwater (<i>Cowdria ruminantium</i> : 1 antigen)	SOP Ser 4	/ sample	R 197-00	5 work days
**Heartwater for herd (minimum 20 samples per herd)	SOP Ser 4	/ sample	R 127-00	5 work days
** <i>Toxoplasma gondii</i> – card agglutination test	n/a	/ sample	R 745-00	5 work days
**Trypanosoma (CAT antibody detection – non-specific)	n/a	/ sample	R 593-00	5 work days Every Thursday for dogs, except Public Holidays
Dogs: <i>Babesia gibsoni</i> IFAT	SOP Ser 3	/ sample	R 717-00	Every Thursday, except Public Holidays
** <i>Leishmania</i> spp- IFAT	SOP Ser 6	/ sample	R 1 427-00	Every Thursday, except Public Holidays
Equine piroplasmiasis: Serology: <i>Theileria equi</i> and <i>Babesia caballi</i> IFAT	SOP Ser 2	/ sample	R 770-00	5 work days Every Friday, except Public Holidays
Equine Serology: <i>T-equi</i> or <i>B-caballi</i> IFAT	SOP Ser 2	/ sample	R 385-00	5 work days Every Friday, except Public Holidays
Theileriosis screening - <i>Theileria parva</i> IFAT	SOP Ser 5.1 or 5.2	/ Sample	R 948-00	5 work days
For Molecular testing (PCR) test we require Purple/Lavender top tubes				
Corridor disease - Determination of <i>Theileria parva</i> status for transport / import purposes; DNA hybridization & serology	SOP Ser 5-1 or 5-2 SOP PCR 4	/ sample	R 2 834-00	10 work days Every Friday, except Public Holidays
** <i>Theileria</i> genus PCR & <i>T. species</i> (sable)	SOP PCR 4	/ sample	R 848-00	10 work days
**Equine Theileriosis PCR	SOP PCR 4	/ sample	R 564-00	10 work days
Printing of additional reports	n/a	/ job	R 245-00	1 work day

****Non-accredited tests**

FEED AND FOOD ANALYSIS

Dr. Itumeleng Matle

Tel: +27(0) 12 529-9381/137 • MatleI@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT	Average turnover time
The detection of <i>E. coli</i> O157	DFP9714	/ sample	R 430-00	5 work days
The enumeration of <i>E. coli</i>	DFP9704	/ sample	R 231-00	5 work days
The enumeration of Coliform bacteria	DFP9705	/ sample	R 198-00	3 work days
The detection of <i>Salmonella</i> spp,	DFP9701	/ sample	R 345-00	5 work days
The enumeration of <i>Listeria</i> spp. and <i>Listeria monocytogenes</i>	DFP9711	/ sample	R 446-00	5 work days
The detection of <i>Listeria</i> spp. and <i>Listeria monocytogenes</i>	DFP9711	/ sample	R 390-00	5 work days
**The detection and enumeration of <i>Bacillus cereus</i>	DFP9702	/ sample	R 282-00	5 work days
The Total Plate Count	DFP9706	/ sample	R 198-00	3 work days
**The enumeration of coagulase positive <i>Staphylococcus aureus</i>	DFP9723	/ sample	R 310-00	5 work days
**The detection and enumeration of <i>Enterobacteriaceae</i>	DFP9724	/ sample	R 164-00	2 work days
The enumeration of Faecal coliforms: Colilert	DFP9722	/ sample	R 164-00	2 work days
The enumeration of Total coliforms: Colilert	DFP9722	/ sample	R 164-00	2 work days
The enumeration of <i>E. coli</i> : Colilert	DFP9722	/ sample	R 164-00	2 work days
**The detection of <i>Campylobacter</i> spp.	DFP9725	/ sample	R 594-00	6 work days

**Non-accredited tests

HEARTWATER PCR

Dr. Helena Steyn

Tel: +27(0) 12 529-9205 • SteynH@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
Heartwater qPCR	/ sample	R 382-00	1 work day

RABIES

Dr. Munangatire Mparamoto

Tel: +27(0) 12 529-9493 • MparamotoM@arc.agric.za or OIERabLab@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
Centrifuged Yellow stopper tubes with gel are preferred and the serum must be clear Microchip numbers: Barcode stickers to be submitted with submission form			
Fluorescent antibody test	/ brain	R 852-00	1 work day
Neutralization test	/ sample	R 2 080-00	20 work days
**Mouse inoculation test	/ sample	R 894-00	28 work days
Extraction of brain tissue from large animal	/ carcass	R 253-00	1 work day
Extraction of brain tissue from small animal	/ carcass	R 142-00	1 work day
Amending of reports	/ job	R 400-00	2 work days
Printing of additional reports	/ job	R 245-00	1 work day

**Non-accredited tests

RESIDUE ANALYSES

Dr Lerato Mollo

Tel: (012) 529 9469/151/194 •MolloL@arc.agric.za

Please see below

* **Non-accredited method**

° **New**

Analyte Group		Analytes	Serum	Feed	Muscle	Liver	Kidney	Fat	Fish	Other	Method No.	Technique	Price Incl. VAT	Average Turnover time
*Antimicrobials		Tetracyclines, B - lactams, Macrolides, Aminoglycosides, Quinolones								Milk & Egg	MICRO 002	Inhibition test (Two Plate)	R 682-00	5-7 work days
*Sulfonamides (Total)		Request at Laboratory which analytes can be detected per matrix			x	x	x			Egg	ELISA 001	ELISA	R 857-00	5-7 work days
*Phenicol		Chloramphenicol			x	x	x			Honey	ELISA 005	ELISA	R 1 970-00	5-7 work days
*Nitrofurantol		AOZ and AMOZ			x	x	x				ELISA 006	ELISA	R 3 402-00	5-7 work days
*Flunixin		Flunixin			x	x	x				ELISA 008	ELISA	R 3 013-00	5-7 work days
*Phenylbutazone		Phenylbutazone			x	x	x				ELISA 009	ELISA	R 3 236-00	5-7 work days
*β-agonists		Clenbuterol, Salbutamol		x							ELISA 012	ELISA	R 3 194-00	5-7 work days
*Pseudo β-agonist		Zilpaterol		x							ELISA 013	ELISA	R 2 646-00	5-7 work days
*Stilbenes		Hexesterol, Diethylstilbestrol, Dienesterol		x			x				ELISA 014	ELISA	R 2 184-00	5-7 work days
*Fluoroquinolones		Ciprofloxacin, Danofloxacin, Enrofloxacin, Norfloxacin			x	x	x	x			HPLC 003	HPLC	R 2 954-00	21 work days
*Imidocarb		Imidocarb			x	x	x	x			HPLC 005	HPLC	R 2 799-00	21 work days
		Zearalenone				x					HPLC 014	HPLC	R 2 977-00	21 work days
*Anthelmintics, Benzimidazoles and Nitroimidazoles	All analytes of the three group listed below				x	x	x		x		LCQ003	LC-MS-MS	R 6 245-00	21 work days
	Anthelmintics	Levamisole, Closantel, Rafoxanide, Praziquantel, Niclosamide, Oxyclozanide			x	x	x		x		LCQ003	LC-MS-MS	R 5 690-00	21 work days
	Benzimidazoles	Albendazole, Oxfendazole, Thiabendazole, Triclabendazole, Fenbendazole, Flubenzadole			x	x	x		x		LCQ003	LC-MS-MS	R 5 706-00	21 work days
	Nitroimidazoles	Dimetridazole, Metronidazole, Ronidazole			x	x	x		x		LCQ003	LC-MS-MS	R 5 706-00	21 work days
*Carbamates		Aldicarb, Carbaryl, Aldicarb Sulfone, Aldicarb Sulfoxide				x			x		LCQ004	LC-MS-MS	R 6 854-00	21 work days

Analyte Group		Analytes	Serum	Feed	Muscle	Liver	Kidney	Fat	Fish	Other	Method No.	Technique	Price Incl. VAT	Average Turnover time
*B-Lactams		Amoxicillin, Ampicillin, Cloxacillin, Penicillin G			x	x	x		x		LCQ005	LC-MS-MS	R 4 393-00	21 work days
*Macrolides		Erythromycin, Lincomycin, Spiramycin, Tylosin, Tilmicosin, Virginiamycin								Honey	LCQ008	LC-MS-MS	R 3 327-00	21 work days
Multi-residue method (Antibiotic and ionophores)	All analytes of the four groups listed below				x	x	x		x		LCQ001	LC-MS-MS	R 8 069-00	21 work days
	Macrolides only	Erythromycin, Lincomycin, Spiramycin, Tylosin, Tilmicosin, Virginiamycin			x	x	x		x		LCQ009	LC-MS-MS	R 2 869-00	21 work days
	Sulfonamides	Sulfachloropyridazine, Sulfadiazine, Sulfadimidine, Sulfadoxine, Sulfamerazine, Sulfadimethoxine, Sulfaguandine, Sulfametoxazole, Sulfamethoxypyridazine, Sulfamonomethoxine, Sulfanilamide, Sulfapyridine, Sulfathiazole, Sulfaquinoxaline			x	x	x		x		LCQ010	LC-MS-MS	R 2 520-00	21 work days
	Tetracyclines	Chlortetracycline, Doxycycline, Oxytetracycline, Tetracycline			x	x	x		x		LCQ026	LC-MS-MS	R 2 407-00	21 work days
	Ionophores/Coccidiostats	Lasalocid, Maduramycin, Monensin, Narasin, Salinomycin			x	x	x		x		LCQ017	LC-MS-MS	R 2 716-00	21 work days
Tetracyclines		Chlortetracycline, Doxycycline, Oxytetracycline, Tetracycline								Honey	LCQ011	LC-MS-MS	R 1 649-00	21 work days
*Resorcylic acid lactones	Zeranol	Zeranol		x	x	x	x	x	x		LCQ016	LC-MS-MS	R 4 647-00	21 work days
*Steroids		Chlormadinone acetate, Medroxyprogesterone acetate, Melengestrol acetate, Methyl testosterone, 19-NorTestosterone, Testosterone, Trenbolone	x						x		LCQ022	LC-MS-MS	R 3 270-00	21 work days

Analyte Group		Analytes	Serum	Feed	Muscle	Liver	Kidney	Fat	Fish	Other	Method No.	Technique	Price Incl. VAT	Average Turnover time
*Steroids		Chlormadinone acetate, Medroxyprogesterone acetate, Melengestrol acetate, Methyl testosterone, 19-Nor Testosterone, Testosterone, Trenbolone		x	x	x	x	x	x		LCQ024	LC-MS-MS	R 3 270-00	21 work days
B-Agonists		Clenbuterol, Salbutamol, Ractopamine, Zilpaterol			x	x	x	x	x		LCQ025	LC-MS-MS	R 3 270-00	21 work days
*Stilbenes		Dienestrol, Diethylstilbestrol, Hexestrol	x								LCQ029	LC-MS-MS	R 3 898-00	21 work days
*B-Agonists		Clenbuterol, Salbutamol, Ractopamine, Zilpaterol	x								LCQ030	LC-MS-MS	R 3 268-00	21 work days
*Resorcylic acid lactones	Zeranol	Zeranol	x	x							LCQ031	LC-MS-MS	R 4 647-00	21 work days
*Thyreostats		2-thiouracil, Pheny thiouracil, Propyl thiouracil, Methyl thiouracil	x		x	x	x	x	x	Urine	LCQ035	LC-MS-MS	R 7 124-00	21 work days
*Olaquinox						x					LCQ032	LC-MS-MS	R 3 952-00	21 work days
*Macrolytic Lactones	Avermectins	Abamectin, Doramectin, Ivermectin, Moxidectin			x	x	x				LCQ033	LC-MS-MS	R 3 093-00	21 work days
*Tiamulin					x	x	x	x	x		LCQ037	LC-MS-MS	R 4 175-00	21 work days
*Phenylbutazone (Confirmation)					x	x	x	x	x		LCQ037	LC-MS-MS	R 4 175-00	21 work days
*Flunixin (Confirmation)					x	x	x	x	x		LCQ037	LC-MS-MS	R 4 175-00	21 work days
*Chloramphenicol (Confirmatory Analysis)	Chloramphenicol									Honey	LCQ034	LC-MS-MS	R 3 956-00	21 work days
Mycotoxins		Aflatoxin B1, B2, G1, G2		x		x					LCQ038	LC-MS-MS	R 3 455-00	21 work days
*B-Agonists		Zilpaterol, Salbutamol, Ractopamine, Clenbuterol		x						Molasses	LCQ039	LC-MS-MS	R 3 414-00	21 work days

REFERENCE LABORATORY FOR AFRICAN HORSE SICKNESS AND BLUETONGUE

Dr. Alison Lubisi

Tel: +27(0) 12 529-9233 • LubisiA@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT
Typing of African horse sickness virus (9 serotypes)	ME_35A	/ sample	R 5 606-00
Typing of African horse sickness serum (9 serotypes)	ME_35B	/ sample	R 5 606-00
Typing of African horse sickness virus (1 serotype)	ME_35A	/ sample	R 818-00
Typing of African horse sickness serum (1 serotype)	ME_35B	/ sample	R 818-00
Typing of Bluetongue virus (24 serotypes)	ME_36A	/ sample	R 9 173-00
Typing of Bluetongue serum (24 serotypes)	ME_36B	/ sample	R 9 173-00
Typing of Bluetongue virus (1 serotype)	ME_36A	/ sample	R 818-00
Typing of Bluetongue serum (1 serotype)	ME_36B	/ sample	R 818-00
Reagent Virus		/ sample	R 505-00
Reagent Serum		/ sample	R 505-00
Typing of EEV	ME_037	/ sample	On request

Turnover time for typing is 2 weeks to 2 months

TRANSBOUNDARY ANIMAL DISEASES

Dr. Livio Heath

Tel: +27(0) 12 529-9585 • HeathL@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
Foot-and-mouth Disease (FMD)			
ELISA (SAT 1, 2, 3)	/serotype	R 378-00	4 work days
ELISA (A, O and Asia 1)	/serotype	R 355-00	4 work days
NSP ELISA	/animal	R 306-00	4 work days
Virus Neutralisation Test	/serotype	R 540-00	8 work days
PCR	/animal	R 2 740-00	4 work days
Testing of embryo fluids (PCR)	/pool of 10	R 2 740-00	4 work days
African Swine Fever (ASF)			
ELISA	/animal	R 419-00	4 work days
PCR	/animal	R 2 740-00	4 work days
Classical Swine Fever (CSF)			
Antigen ELISA	/organ	R 363-00	4 work days
PCR	/animal	R 2 740-00	4 work days
Other			
Aujeszky's Disease Antibody ELISA	/ animal	R 275-00	4 work days
Aujeszky's Disease PCR	/ animal	R 2 740-00	4 work days
Swine Vesicular Disease (SVD) Antibody ELISA	/ animal	R 388-00	5 work days
PRRS PCR	/ animal	R 2 740-00	4 work days
Peste de petit ruminants PCR	/ animal	R 2 740-00	4 work days
Peste de petit ruminants ELISA	/ animal	R 682-00	4 work days
TGE ELISA	/ animal	R 340-00	4 work days

Reagents: FMD Positive / Negative Serum or antigen available on request

All samples are tested in a high containment BSL3 facility-

TOXICOLOGY

Ms. Heleen Coetser

Tel: +27(0) 12 529-9260 • VanDenBergH@arc.agric.za

<i>Test</i>	<i>Method No.</i>	<i>Unit</i>	<i>Price Incl. VAT</i>	<i>Average turnover time</i>
Pesticides	Pest 09	/ sample	R 1 558-00	6 work days
Strychnine	Str 10	/ sample	R 1 183-00	4 work days
Arsenic	As 11	/ sample	R 587-00	4 work days
Mycotoxins				
Total Aflatoxin ELISA: 1st sample	Myc 01	/ sample	R 931-00	4 work days
Total Aflatoxin ELISA: 2 - 20 samples	Myc 01	/ sample	R 425-00	4 work days
Ochratoxin Elisa: 1st sample	Myc 04	/ sample	R 1586-00	4 work days
Ochratoxin: 2 - 20 samples	Myc 04	/ sample	R 548-00	4 work days
Zearelenone Elisa: 1st sample	Myc 06	/ sample	R 1 586-00	4 work days
Zearelenone Elisa: 2 - 20 samples	Myc 06	/ sample	R 548-00	4 work days
Microcystin Elisa: 1st sample	Mic 30	/ sample	R 2 502-00	4 work days
Microcystin Elisa: 2 - 20 samples	Mic 30	/ sample	R 1 699-00	4 work days
Deoxynivalenol Elisa: 1st sample	Myc 02	/ sample	R 1 579-00	4 work days
Deoxynivalenol Elisa: 2 - 20 samples	Myc 02	/ sample	R 544-00	4 work days
Fumonisin Elisa: 1st sample	Myc 03	/ sample	R 1 586-00	4 work days
Fumonisin Elisa: 2 - 20 samples	Myc 03	/ sample	R 544-00	4 work days
T2/HT-2 Toxin Elisa: 1st sample	Myc 05	/ sample	R 1 586-00	4 work days
T2/HT-2 Toxin Elisa: 2 - 20 samples	Myc 05	/ sample	R 544-00	4 work days
Ionophore screen	Ion 12	/ sample	R 1 278-00	6 work days
Ionophore quantified	Ion 13	/ sample	R 1 095-00	6 work days
Urea / Ammonia / Ammonium chloride	Ur 15	/ sample	R 888-00	4 work days
Sodium chloride	Na 16	/ sample	R 856-00	4 work days
Cyanide	Cya 29	/ sample	R 575-00	4 work days
Trace elements: Digestion plus one element (Cu,Fe, Zn, Mn in tissue)	TE 17	/ sample	R 1 084-00	6 work days
Trace elements: Every additional element	TE 17	/ sample	R 346-00	6 work days
Electrolytes (Ca, Mg, Na, K, PO4 (serum))	E 23	/ sample	R 465-00	4 work days
Nitrate / Nitrite	NO 24	/ sample	R 157-00	4 work days
Monofluoro-acetate (1080)	Mo 18	/ sample	R 2 301-00	5 work days
Lead in Organs	Pb 20	/ sample	R 1 093-00	4 work days
Gossypol	Gos 08	/ sample	R 965-00	6 work days
Phosphine	Ph 21	/ sample	R 353-00	4 work days
pH	pH 22	/ sample	R 141-00	4 work days

TUBERCULOSIS & JOHNE'S DISEASE LABORATORY

Dr. Tiny Hlokwe

Tel: +27(0) 12 529-9149 • HlokweT@arc.agric.za

Test	Method No.	Price Incl. VAT	Average turnover time
Gamma interferon assay	TBME001	R 455-00	3 work days
Fresh Blood Processing for Gamma interferon assay (Done within 6-8 hours of blood collection)	TBME001	R 251-00	1 work day
ZN Staining and Microscopy identification of Mycobacterium species	TBME002	R 197-00	1 work day
Isolation of Mycobacterium species from a variety of samples	TBME002	R 1 012-00	Up to 80 work days
**TB and Paratuberculosis Wax block section PCR	TBME004	R 372-00	1 work days
Differentiation (speciation) of <i>Mycobacterium tuberculosis</i> complex strains by PCR	TBME005	R 471-00	1 work days
**Molecular typing of <i>Mycobacterium tuberculosis</i> complex (including <i>M. bovis</i> and <i>M. tuberculosis</i>)	TBME006	R 941-00	3 work days
Johne's disease ELISA	TBME003	R 528-00	3 work days
Fortuitum PPD per vial (sale)	TBME007	R 260-00	N/A
Isolation and identification of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i>	TBME008	R 855-00	Up to 80 work days
Direct detection of <i>Mycobacterium tuberculosis</i> complex by Real-Time PCR	TBME009	R 698-00	1 work day
After hour fees: 16:00 – 17:00		R 401-00	N/A
After hour fees: 17:00 – 20:30 (and weekends)		R 858-00	N/A

**Non-accredited tests

VACCINE AND DIAGNOSTIC DEVELOPMENT: IMMUNE ASSAY

Dr. Mirinda van Kleef

Tel: +27(0) 12 529-9385 • VankleefM@arc.agric.za

Test	Unit	Price Incl. VAT	Average turnover time
PBMC isolation per 20ml blood sample (no consumables)	/ sample	R129.00	1 work day
Whole blood staining for flow cytometry (no consumables or antibodies)	/ sample	R62.00	1 work day
Flow cytometry sample analyses of data	/ sample	R194.00	2 work days
Flow cytometry pre-stained sample: Running of a sample in triplicate on the Beckman Coulter or the Accuri C6 (no consumables)	/ sample	R14.00	2 work days
ELISPOT: Reading of one 96 well ELISPOT plate	/ 96 well plate	R98.00	1 work day
ELISPOT: Reading and analysis of one 96 well ELISPOT plate (no consumables)	/ 96 well plate	R257.00	2 work days
ELISPOT: Execution, reading and analysis of one 96 well ELISPOT plate (no consumables)	/ 96 well plate	R670.00	4 work days

VIROLOGY: VIRAL SEROLOGY

Dr. Alison Lubisi

Tel: +27(0)12 529-9233 • LubisiA@arc.agric.za

Test	Method No.	Unit	Price Incl. VAT
Lumpy skin disease: Neutralization test	ME-08A	/ sample	R738.00
African horse sickness: Indirect ELISA	ME-010	/ sample	R151.00
Bovine virus diarrhoea antibody: Blocking ELISA	ME-003	/ sample	R415.00
Bovine virus diarrhoea antigen: Capture ELISA	ME-011	/ sample	R552.00
Bluetongue: Competitive ELISA	ME-012	/ sample	R425.00
Equine encephalosis: Indirect ELISA	ME-013	/ sample	R151.00
Infectious bovine rhinotracheitis: Blocking ELISA	ME-005	/ sample	R147.00
Maedi visna: Competitive ELISA	ME-014	/ sample	R153.00
Newcastle disease: Indirect ELISA	ME-006	/ sample	R167.00
Newcastle disease: Haemagglutination inhibition	ME-002	/ sample	R185.00
Para-influenza 3: Indirect ELISA	ME-015	/ sample	R167.00
Rift Valley Fever: Indirect IgG ELISA	ME-016b	/ sample	R144.00
Rift Valley Fever: Capture IgM ELISA	ME-016a	/sample	R144.00
Rift Valley Fever: Double antigen ELISA	ME-016	/ sample	R287.00
Rift Valley Fever: Neutralization Test	ME-049	/ sample	R738.00
Equine Influenza: Haemagglutination inhibition - Hugenot	ME-18A	/ sample	R194.00
Equine Influenza: Haemagglutination inhibition - Prague	ME-18B	/ sample	R194.00
Bovine leucosis virus: Indirect ELISA	ME-19C	/ sample	R427.00
Bovine leucosis virus: Blocking ELISA	ME-19A	/ sample	R369.00
Bovine leucosis virus: Agar Gel Immunodiffusion	ME-19B	/ sample	R232.00
Porcine Reproductive and Respiratory Syndrome: Indirect ELISA	ME-004	/ sample	R358.00
Avian influenza: H5 - Haemagglutination inhibition	ME-002	/ antigen / sample	R77.00
Avian influenza: H6 - Haemagglutination inhibition	ME-002	/ antigen / sample	R77.00
Avian influenza: H7 - Haemagglutination inhibition	ME-002	/ antigen / sample	R77.00
Avian influenza: Indirect ELISA	ME-007	/ sample	R77.00
Influenza A viruses: Blocking ELISA	ME-007A	/ sample	R158.00
Caprine Arthritis Encephalitis: Competitive ELISA	ME-022	/ sample	R153.00
Chlamydia: Indirect ELISA	ME-042	/ sample	R368.00
Equine herpes virus 1: Indirect ELISA	ME-027	/ sample	R686.00
Equine herpes virus 4: Indirect ELISA	ME-027	/ sample	R686.00
Equine infectious anemia: Agar Gel Immunodiffusion	ME-028	/ sample	R232.00
Classical Swine Fever: Blocking Antibody ELISA	ME-029	/ sample	R352.00
West Nile Virus: Competitive IgG ELISA	ME-024	/ sample	R485.00
Others			On request
Average turnover time is 7 work days			

VIROLOGY: VIRUS ISOLATION

Dr. Alison Lubisi

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<i>Test</i>	<i>Method No.</i>	<i>Unit</i>	<i>Price Incl. VAT</i>
The prices below include professional fee			
SPF-eggs (all routes)	ME_30B	/ sample	R 3 437-00
SPF-eggs (all routes) - One passage i-e- propagation	ME_30B	/ sample	R 1 490-00
Virus isolation – mice	ME_031	/ sample	R 2 472-00
Virus isolation – tissue culture (plates / tubes / flaks)	ME_32A ME_32C	/ isolation	R 1 402-00
Virus propagation – tissue culture (large flask)	ME_32C	/ sample (1 passage)	R 764-00
Virus propagation – tissue culture (medium flask)	ME_32C	/ sample (1 passage)	R 522-00
Plaque titration of virus in tissue culture plates - 24 wells	VR_ME_055-00	/ sample	R 889-00
Titration in tissue culture (microneutralisation)	ME_38A	/ sample	R 364-00
African horse sickness - PRNT	VR_ME_051-00	/ sample	R 1330-00
Bluetongue - PRNT	VR_ME_052-00	/ sample	R 1 330-00
Rift Valley Fever - PRNT	VR_ME_050-00	/ sample	R 893-00
Disinfectant efficacy test - ECE	VR_ME_053-00	/ sample	R 67 200-00
Disinfectant efficacy test - TC	VR_ME_054-00	/ sample	R 45 360-00
Titration of virus in ECE	VR_ME_056-00	/ sample	R 1 490-00
Turnover time for virus isolation is 1 month			

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