

# Diagnostic Pricelist 2018/2019

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The institute is open Mondays to  
Fridays  
from 07:30 – 16:00

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## General information

Available diagnostic services and tests performed by the ARC-OVI are grouped and tabulated in accordance with the organization of specialities within the ARC-OVI.

## Enquiries

- For general enquiries regarding submissions and other information, please contact the Diagnostic Registration Office, Tel: (012) 5299272.
- For enquiries concerning **Foot-and-mouth disease** and **African swine fever** contact the Transboundary Animal Diseases Program (TAD) at Tel: (012) 5299585 during office hours. TAD is manned 24 hours per day; the after hours number is Tel: (012) 5299574 (security office).

## Submission of specimens

The various submission forms are available on the website: <http://www.arc.agric.za> or from the Diagnostic Registration Office Tel: (012) 5299272 or e-mail: [diagreg@arc.agric.za](mailto: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-OVI 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** and **African swine fever** should only be sent in collaboration with the local State Veterinarian (see below), and should always be delivered directly to the ARC-OVI TAD. 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 and African swine fever**) is:

**Senior Manager Research: Animal Health and Protection**  
**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** and **African swine fever** is:

**Programme Manager: Transboundary Animal Diseases Program**  
**ARC-Onderstepoort Veterinary Research, Transboundary Animal Diseases Program, Onderstepoort, 0110**

## Results

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

## Price and Payments

All prices include 15% VAT. Large volumes of samples are eligible for an *ad hoc* discount and will be quoted on an *ad hoc* basis, prices available on request and arrangement prior to submission of samples. An account will be sent to **THE SUBMITTER or the PERSON/ ORGANISATION RESPONSIBLE FOR PAYMENT**, after completion of the test required.

**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.**

**PLEASE NOTE THAT PRICES MAY CHANGE WITHOUT NOTICE DUE TO CURRENCY FLUCTUATIONS.**

The ARC-OVI may use information resulting from the diagnostic processing of specimens for further research purposes.

Service will only be rendered in terms of the ARC-OVI's Standard Terms and Conditions.

*Price updated: March 2018  
Content updated: March 2018*

## ARC-Onderstepoort Veterinary Research Diagnostic Pricelist: 2018/2019

*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.*

### FEED AND FOOD ANALYSIS

Ms. Aletta Mathole

Tel: (012) 529 9323/144 • MatholeM@arc.agric.za

<i>Test</i>	<i>Method no</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
<i>E. coli</i> O157:H7 (1 – 10 samples)      detection & identification	DFP9714	R 589-00	5 work days
<i>E. coli</i> O157:H7 (> 10 samples)      detection & identification	DFP9714	R 521-00	5 work days
<i>E. coli</i> (1 – 10 samples)      detection & enumeration	DFP9704	R 246-00	5 work days
<i>E. coli</i> (> 10 samples)      detection & enumeration	DFP9704	R 213-00	5 work days
Coliform (1 – 20 samples)      detection & enumeration	DFP9705	R 209-00	3 work days
Coliform (> 20 samples)      detection & enumeration	DFP9705	R 180-00	3 work days
<i>Salmonella</i> spp. (1 – 20 samples)      detection	DFP9701	R 406-00	5 work days
<i>Salmonella</i> (> 20 samples)      detection	DFP9701	R 365-00	5 work days
Listeria spp. detection      detection	DFP9711	R 337-00	5 work days
Listeria monocytogenes enumeration      detection & detection	DFP9711	R 391-00	5 work days
Bacillus cereus      detection & enumeration	DFP9702	R 272-00	3 work days
Clostridium perfringens      detection	DFP9702	R 367-00	5 work days
Aerobic plate count (1 – 20 samples)      liquids & food	DFP9706	R 235-00	3 work days
Aerobic plate count: (> 20 samples)      liquids & food	DFP9706	R 211-00	3 work days
Staphylococcus aureus      detection & enumeration	DFP9723	R 267-00	5 work days
Enterobacteriaceae      detection & enumeration	DFP9724	R 225-00	3 work days
Colilert: Detection & Enumeration of <i>E.coli</i>	DFP9722	R 122-00	2 work days
Colilert: Detection & Enumeration of faecal coliforms	DFP9722	R 122-00	2 work days
Colilert: Detection & Enumertation of total coliforms	DFP9722	R 122-00	2 work days
Campylobacter spp.      detection	DFP9725	R 485-00	6 work days

<b>TUBERCULOSIS</b> Dr. Tiny Hlokwe Tel: (012) 529 9149 • HlokweT@arc.agric.za			
<b>Test</b>	<b>Method no</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
Gamma interferon assay:	TBME001	R 418-00	3 work days
Primate gamma interferon assay (inform the lab a month in advance)	TBME001	R 663-00	3 work days
Microscopy smear examination	TBME002	R 157-00	2 work days
Processing of blood <b>Fresh blood must be submitted to the laboratory within 8 hours of collection</b>	TBME001	R 156-00	
TB culture of variety of samples	TBME002	R 830-00	80 work days
**TB PCR (wax block sections)	TBME004	R 378-00	2 work days
**Typing of <i>Mycobacterium bovis</i>	TBME006	R 574-00	5 work days
** <i>M tuberculosis</i> typing	TBME006	R 402-00	5 work days
Differentiation of <i>M.tuberculosis</i> complex by PCR	TBME005	R 378-00	3 work days
Johne's disease ELISA	TBME003	R 383-00	3 work days
**Isolation and ID of <i>M. avium</i> subspecies paratuberculosis	TBME008	R 587-00	Up to 70 days
Fortuitum PPD per vial	TBME007	R 244-00	
<b>After hour fees</b> 16:00 – 17:00		R 338-00	
17:00 – 20:30 (and weekends)		R 761-00	

\*\*Non-accredited tests

<b>BACTERIOLOGY PCR LABORATORY</b> Dr. Nomakorinte Gcebe Tel: (012) 529 9140 • GcebeN@arc.agric.za			
<b>Test</b>	<b>Method no.</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
<b>Toxin typing</b>			
<i>C. perfringens</i> typing PCR from culture Anaerobic culture will be performed if necessary @ R 384-00 (incl.VAT)	BPME004	R 569-00	4 days
<b>E.coli</b>			
<i>E.coli</i> O157:H7 Detection	BPME006	R 474-00	4 days
<i>E. coli</i> and non-O157 STEC toxin typing		R 467-00	4 days
<b>Brucella</b>			
** <i>Brucella</i> spp. Screening PCR from culture	BPME003	R 474-00	3 days
**Brucella identification including vaccine strains	BPME003	R 674-00	3 days
<b>Anthrax</b>			
<i>B. anthracis</i> screening (from culture) culture & PCR	BPME005	R 466-00	3 days
<i>B. anthracis</i> identification (from culture) PCR	BPME005	R 700-00	2 days
<b>Sheath Washes</b>			
<i>T. foetus</i> and <i>C.fetus</i> (1-10 samples) DNA prep. & PCR	BPME002	R 593-00	4 days
<i>T. foetus</i> and <i>C.fetus</i> (>10 samples) DNA prep. & PCR	BPME002	R 593-00	5 days
<i>T. Foetus</i> or <i>C.fetus</i> DNA prep & PCR	BPME002	R 572-00	4 days
<b>Other pathogens</b>			
** <i>Salmonella</i> PCR	BPME008	R 506-00	3 days
** <i>P. multocida</i> type D (1-20 samples) culture & PCR	BPME007	R 506-00	3 days
** <i>P. multocida</i> type D (>20 samples) culture & PCR	BPME007	R 506-00	4 days
**Contagious equine metritis (CEM) PCR	BPME009	R 572-00	4 days
** <i>Listeria monocytogenes</i> (from culture) PCR	BPME010	R 429-00	4 days

\*\*Non-accredited tests

<b>BACTERIAL SEROLOGY</b>				
Dr. Andrew Potts Tel: (012) 529 9396 • <a href="mailto:PottsA@arc.agric.za">PottsA@arc.agric.za</a> <b>Centrifuged Yellow stopper tubes with gel are preferred</b> <b>Microchip numbers: Barcode stickers to be submitted with submission form</b>				
Test	Method no	Unit	Incl. VAT	Average turnover time
<b>BOVINE only (Red /Yellow stopper tube only)</b>				
<i>Brucella abortus</i> Rose Bengal test & SAT	BS/ME001,004	/sample	R 36-00	5 - 7 work days
<i>Brucella abortus</i> Rose Bengal test Or SAT only	BS/ME001,004	/sample	R 18-00	5 - 7 work days
<i>Brucella abortus</i> CFT	BS/ME005	/sample	R 29-00	7 - 10 work days
CBPP CFT	BS/ME007	/sample	R 38-00	7 - 10 work days
<b>OVINE only (Red / Yellow stopper tube only)</b>				
<i>B. ovis</i> CFT	BS/ME005	/sample	R 41-00	7 - 10 work days
<b>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.)</b>				
<i>B. canis</i> Tube Agglutination Test	BS/ME011	/sample	R 483-00	5-7 days Tue & Wed by 11:00 in the lab
<b>EQUIDS only (Red / Yellow stopper tube only)</b>				
Dourine CFT	BS/ME005	/sample	R 112-00	7-100 days Thursday by 10:00 in the lab
Glanders CFT	BS/ME012	/sample	R 370-00	7 - 10 days Thursday by 10:00 in the lab
<b>Bovine, Caprine and Ovine (Red / Yellow stopper tube only)</b>				
Johne's disease CFT	BS/ME005	/sample	R 124-00	7 - 10 work days
<b>ALL SPECIES</b>				
Leptospirosis canine microscopic slide agglutination test (MAT) <b>We only accept yellow top tubes already centrifuged and the serum must be clear. NO red top tubes with blood clots will be accepted.)</b>	BS/ME002	/sample	R 325-00	5 - 7 work days Wednesday by 8:00 in the lab
Leptospirosis other microscopic slide agglutination test (MAT) <b>(Red / Yellow stopper tube only)</b>	BS/ME002	/sample	R 98-00	5 - 7 work days Wednesday by 8:00 in the lab
<b>Bovine Export &amp; Non-Bovine (Red / Yellow stopper tube only)</b>				
<i>Brucella abortus</i> Rose Bengal test & SAT	BS/ME001,004 *BS/NME001,004	/sample	R 70-00	5 – 7 work days
<i>Brucella abortus</i> Rose Bengal test Or SAT only	BS/ME001,004 *BS/NME001,004	/sample	R 35-00	5 - 7work days
<i>Brucella abortus</i> CFT	BS/ME005 *BS/NME005	/sample	R 61-00	7 –10 work days
<b>Non-ovine (Red / Yellow stopper tube only)</b>				
** <i>B. ovis</i> CFT	BS/NME005	/sample	R 41-00	7 - 10 work days
<b>All Species (Red / Yellow stopper tube only)</b>				
** <i>Brucella melitensis</i> CFT <i>Brucella melitensis</i> RBT & SAT <i>Brucella suis</i> CFT <i>Brucella suis</i> RBT & SAT	BS/NME005/001/004	/sample	R 61-00 R 70-00 R 61-00 R 70-00	7 - 10 work days
<b>Non-equids (Red / Yellow stopper tube only)</b>				
**Dourine CFT	BS/NME005	/sample	R 112-00	7 - 10 days Thursday
<b>Equids (Red / Yellow stopper tube only)</b>				
**CEM CFT	BS/NME005	/sample	R 67-00	7 -10 days
<b>All species excluding bovine, caprine and ovine (Red / Yellow stopper tube only)</b>				
**Johne's disease CFT	BS/NME005	/sample	R 124-00	7 - 10 work days
<b>Bovine (Milk with sufficient cream)</b>				
<i>Brucella abortus</i> Milk-ring test	BS/NME 005	/sample	R 33-00	5 – 7 work days
<b>Other</b>				
<i>Leptospira</i> spp. isolation			On request	
Supply of Dourine positive control serum		/ml	R 535-00	
<b>Printing of additional report/s</b>		/job	R 151-00	

\*\*Non-accredited tests

**GENERAL BACTERIOLOGY**

Dr. Awoke Kidanemariam

Tel: (012) 529 9381 • KidanemariamA@arc.agric.za

<b>Test</b>	<b>Method no</b>	<b>Unit</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
<b>Sheathwash examination</b>				
** <i>C. fetus</i> or <i>T. foetus</i> culture	BLME003, BLME005	/ sample	R 318-00	7 – 10 days
** <i>C. fetus</i> and <i>T. foetus</i> culture	BLME003 BLME005	/ sample	R 340-00	7 – 10 days
<b><i>Brucella</i> spp</b>				
Isolation on culture	BLME004	Up to 3 samples	R 349-00	7 – 10 days
Typing	BLME004	Up to 3 samples	R 403-00	7 – 10 days
<b>Aerobic culture</b> (isolation & identification)	BLME001	Up to 3 samples	R 380-00	7 – 10 days
<b>Anaerobic culture</b> (isolation & identification)	BLME002	Up to 3 samples	R 384-00	7 – 10 days
<b>**Antibiogram</b>	BLME 014	/ sample	R 187-00	2 days
<b><i>Bacillus anthracis</i> (Anthrax)</b>	BL/ME 007	/ sample	R 487-00	3 – 4 days
<b>**Examination of smears</b>		/ smear	R 260-00	1 day
<b>Bacterial typing</b>				
** <i>Klebsiella</i> spp		/ sample	R 593-00	3 – 5 days
** <i>Pasteurella</i> spp	BLME009 BLME011	/ sample	R 687-00	3 – 5 days
<i>Salmonella</i> spp	DFP9709	/ sample	R 714-00	3 – 5 days
** <i>Actinobacillus pleuropneumonia</i>		/ sample	R 405-00	3 – 5 days
<b>FAT (<i>Clostridium</i> spp)</b>	DFP9712	/ sample	R 389-00	3 – 5 days
<b>**<i>Clostridium botulinum</i> toxin determination</b>				
** Screening test	BLME008	/ sample	R 978-00	7 – 10 days
<b>Contagious equine metritis (CEM)</b>	BLME 010	Up to 3 swabs	R 708-00	7 – 10 days
<b>**Fungus</b> (isolation & identification)		/ sample	R 640-00	1 – 3 weeks
<b>**<i>Mycoplasma</i> spp</b> (isolation & identification)		/ sample	R 681-00	7 – 10 days
<b>**Fish Bacterial Kidney Disease</b>	BL/ME 012	/ sample	R 476-00	6 – 8 weeks
<b>**Total Bacterial Cell count of semen sample</b>	BL/ME 013	/ sample	R 424-00	3 – 4 days
<b>Freeze drying / providing freeze dried controls</b>		/ culture	R 1 318-00	

\*\*Non-accredited tests



**PARASITES, VECTORS AND VECTOR-BORNE DISEASES - ACAROLOGY**

Mr. Deon Bakkes

Tel: (012) 529 9302 / 9364 • BakkesD@arc.agric.za

<i>Test</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Identification of ticks / mites	/specimen	R 148-00	
More than one specimen	/hour	R 495-00	
Large consignments of tick specimens – organize with Mr. Deon Bakkes			

**PARASITES, VECTORS AND VECTOR-BORNE DISEASES – HELMINTHOLOGY**

Dr. Kerstin Junker

Tel: (012) 529 9215 • JunkerK@arc.agric.za

<i>Test</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Direct Faecal Flotation (Faecalysers)		R 128-00	2 work days
McMaster Nematode Egg Count		R 106-00	2 work days
Larval Culture and Identification of Infective Larvae of Domesticated Ruminants		R 385-00	14 work days
Larval Culture and Identification of Infective Larvae of Wild Ruminants		R 480-00	14 work days
Pitchford/Visser Trematode Egg Count		R 147-00	2 work days
Worm Recovery	Quotation on request		
Worm Identification – prevalent helminths		R 270-00	5 work days

**Vaccine diagnostics and development**

Dr. Helena Steyn

Tel: (012) 529 9205 • SteynH@arc.agric.za

<i>Test</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
qPCR	/ sample	R 452-00	
qPCR & Sequencing	/ sample	R 1 551-00	
Other genes	/ sample	R 674-00	
Breeding and supplying of Amblyomma hebraeum Nymph ticks for local sources		R 1967-00	
Breeding and supplying of Amblyomma hebraeum Nymph ticks for outside sources		\$1	

**PARASITES, VECTORS AND VECTOR-BORNE DISEASES**

Mr. Olivier Matthee

Tel: (012) 529 9199 • MattheeO@arc.agric.za

<b>Test</b>	<b>Method no</b>	<b>Unit</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
Smear examination		/ smear	R 144-00	5 work days
Bovine babesiosis IFAT (1 - 19)	SOP Ser 1	/ sample	R 120-00	5 work days
Bovine babesiosis for herd IFAT (minimum 20 samples per herd)	SOP Ser 1	/ sample	R 69-00	5 work days
Bovine babesiosis ( <i>Babesia bigemina</i> / <i>bovis</i> / <i>occultans</i> /spp: 2 or 4 antigens)	SOP Ser 1	/ antigen / sample	R 156-00	5 work days
Heartwater ( <i>Cowdria ruminantium</i> : 1 antigen)	SOP Ser 4	/ sample	R 107-00	5 work days
Heartwater for herd	SOP Ser 4	/ sample	R 71-00	5 work days
<i>Toxoplasma gondii</i> – card agglutination test		/ sample	R 467-00	5 work days
<i>Trypanosoma</i> (CAT antibody detection – non-specific)		/ sample	R 360-00	5 work days Every Thursday for dogs, except Public Holidays
Dogs: <i>Babesia gibsoni</i> Determination of <i>B gibsoni</i> status	SOP Ser 3	/ sample	R 450-00	Every Thursday, except Public Holidays
<i>Leishmania</i> spp. IFAT Determination of <i>Leishmania</i> spp status	SOP Ser 6	/ sample	R 878-00	Every Thursday, except Public Holidays
Equine piroplasmiasis: Serology: <i>Babesia (Theileria) equi</i> and <i>B caballi</i> IFAT	SOP Ser 2	/ sample	R 431-00	5 work days Every Friday, except Public Holidays
Serology: <i>Babesia (Theileria) equi</i> or <i>B caballi</i> IFAT	SOP Ser 2	/ sample	R 220-00	5 work days Every Friday, except Public Holidays
Theileriosis Determination of <i>Theileria parva</i> status for transport / import purposes; DNA hybridization & serology	SOP Ser 1 SOP PCR 1 SOP PCR 3	/ sample	R 2 208-00	10 work days
Theileriosis screening – <i>Theileria</i> genus PCR & <i>T. taurotragii</i>	SOP Ser 5.2	/ sample	R 607-00	10 work days
<b>Printing of additional reports</b>		/ job	R 151-00	

<b>BUFFALO TEST PACKAGE</b>			
Dr. Andrew Potts – Tel: (012) 529 9396 • PottsA@arc.agric.za Dr. Sikhumbuzo Mbizeni – Tel: (012) 529 9216 • MbizeniS@arc.agric.za			
<i>Description</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Full test package (Theileriosis, Gamma interferon, Brucella, FMD)	Per animal	R3 645-00	10 work days

<b>BIOTECHNOLOGY PCR LABORATORY</b>				
Dr. Marco Romito Tel: (012) 529 9252 • RomitoM@arc.agric.za				
<i>Test</i>	<i>Method no</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
<b>African horsesickness virus</b>	ME-015	/ sample	R 404-00	3 work days
<b>Equine encephalosis virus</b>		/ sample	R 404-00	3 work days
<b>Equine herpes virus 1 &amp; 4</b>		/ sample	R 404-00	3 work days
<b>Bovine malignant catarrhal fever virus</b>	ME-013			
Identification of wildebeest- <b>&amp;</b> sheep-associated forms		/ sample	R 475-00	3 work days
Identification of wildebeest- <b>OR</b> sheep- associated form		/ sample	R 374-00	3 work days
<b>Newcastle disease virus</b>				
Newcastle disease virus-serogroup	ME-005	/ sample	R 354-00	3 work days
Newcastle disease avirulent / virulent	ME-003	/ sample	R 455-00	3 work days
<b>Avian influenza virus</b>				
All influenza A viruses	ME-016	/ sample	R 354-00	3 work days
Influenza H5 or H7 subgroups		/ sample	R 354-00	3 work days
<b>Bovine viral diarrhoea virus &amp; Border disease viruses</b>		/ sample	R 404-00	3 work days
<b>Infectious bronchitis virus</b>		/ sample	R 354-00	3 work days
<b>Lumpy skin disease virus</b>	ME-010	/ sample	R 404-00	3 work days
<b>Bluetongue virus</b>	ME-025	/ sample	R 379-00	3 work days
<b>Rift Valley fever virus</b>	ME-023	/ sample	R 404-00	3 work days
<b>West Nile virus</b>		/ sample	R 434-00	3 work days
<b>Bovine ephemeral fever virus</b>		/ sample	R 379-00	3 work days
<b>Chlamydothyla</b>	ME-026	/ sample	R 379-00	3 work days
<b>Bovine herpesvirus 1</b>		/ sample	R 379-00	3 work days
<b>Leptospira spp.</b>	ME-028	/ sample	R 379-00	3 work days
<b>Infectious bursal disease: vaccine and very virulent</b>		/ sample	R 455-00	3 work days
<b>Infectious salmon anaemia virus</b>		/ sample	R 354-00	3 work days
<b>Mycoplasma</b>		/ sample	R 354-00	3 work days
<b>Koi herpesvirus</b>		/ sample	R 379-00	3 work days
<b>Renibacterium salmoninarum (BKD) rPCR</b>		/ sample	R 354-00	3 work days
<b>Viral nervous necrosis virus</b>		/ sample	R 354-00	3 work days
<b>Extractions</b>			R 76-00	
Discounts: (a) Multiple tests per sample, R80-00 (Incl VAT) discount for each additional test				
(b) 5–10 samples: R28-00 (incl VAT) discount for each sample				
(c) 11-15 samples: R32-00 (incl. VAT) discount for each sample				
(d) 16-20 samples: R36-00 (incl. VAT) discount for each sample				
(e) > 21 samples: R40-00 (incl. VAT) discount for each sample				
Additional fees: Tissue samples, blood clots, dry and unpooled swabs & samples requiring additional processing, R 22-00 per sample				

**BSE LABORATORY**  
**For any inquiries please contact**  
 Dr. Claude Sabeta  
 Tel: (012) 529 9439 • SabetaC@arc.agric.za

**RABIES**  
 Dr. Claude Sabeta  
 Tel: (012) 529 9439 • [SabetaC@arc.agric.za](mailto:SabetaC@arc.agric.za) or [OieRabLab@arc.agric.za](mailto:OieRabLab@arc.agric.za)

<i>Test</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Fluorescent antibody test and virus isolation	/ brain	R 526-00	1 work day
Neutralization test	/ sample	R 1 141-00	15 work days
<b>Printing of additional reports</b>	/ job	R 151-00	

**PATHOLOGY**  
 Dr Laura Lopez  
 Tel: (012) 529 9272 • LopezL@arc.agric.za

<i>Test</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Histopathology	/ case	R 500-00	14 work days

**DIAGNOSTIC SUPPLIES**  
 Dr. Laura Lopez  
 Tel: (012) 529 9272 • DiagReg@arc.agric.za

Will only be ordered on request		
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**TOXICOLOGY**

Mrs. Heleen Coetser

Tel: (012) 529 9263 • VanDenBergH@arc.agric.za

<b>Test</b>	<b>Method no</b>	<b>Unit</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
Pesticides	Pest 09	/ sample	R 719-00	4 work days
Strychnine	Str 10	/ sample	R 401-00	4 work days
Arsenic	As 11	/ sample	R 276-00	4 work days
Mycotoxins				
Total Aflatoxin Elisa first sample	Myc 01		R 788-00	4 work days
Total Aflatoxin Elisa 2 - 20 samples	Myc 01		R 349-00	4 work days
Ochratoxin Elisa first sample	Myc 04		R 1 167-00	4 work days
Ochratoxin Elisa 2 - 20 samples	Myc 04		R 485-00	4 work days
Zearelenone Elisa first sample	Myc 06		R 1 167-00	4 work days
Zearelenone Elisa 2 - 20 samples	Myc 06		R 485-00	4 work days
Microcystin Elisa first sample	Mic 30		R 1 786-00	4 work days
Microcystin Elisa 2 - 20 samples	Mic 30		R 1 126-00	4 work days
Deoxynivalenol Elisa first sample	Myc 02		R 1 167-00	4 work days
Deoxynivalenol Elisa 2 - 20 samples	Myc 02		R 485-00	4 work days
Fumonisin Elisa first sample	Myc 03		R 1 167-00	4 work days
Fumonisin Elisa 2 - 20 samples	Myc 03		R 485-00	4 work days
T2/HT-2 Toxin Elisa first sample	Myc 05		R 1 167-00	4 work days
T2/HT-2 Toxin Elisa 2 - 20 samples	Myc 05		R 485-00	4 work days
Ionophore screen	Ion 12	/ sample	R 808-00	6 work days
Ionophore quantified	Ion 13	/ sample	R 832-00	6 work days
Urea / Ammonia / Ammonium chloride	Ur 15	/ sample	R 520-00	4 work days
Sodium chloride	Na 16	/ sample	R 649-00	4 work days
Cyanide	Cya 29	/ sample	R 461-00	4 work days
Trace elements:Cu,Fe, Zn, Mn,In tissue (Digestion plus one element)	TE 17	/ sample	R 788-00	6 work days
Trace elements:Cu,Fe, Zn, Mn,In tissue (Every additional element)	TE 17		R154-00	6 work days
Electrolytes (Ca, Mg, Na, K, PO <sub>4</sub> (serum))	E 23	/ sample	R 727-00	4 work days
Nitrate / Nitrite	NO 24	/ sample	R 67-00	4 work days
Monofluoro-acetate (1080)	Mo 18	/ sample	R 2 042-00	5 work days
Plant identification	PI 25	/ sample		10 work days
Fungi identification	FI 26		Client pays PHPR***	
Handling fee (advice)			R 141-00	
Lead in organs	Pb 20	/ sample	R 788-00	4 work days
Gossypol	Gos 08	/ sample	R 765-00	6 work days
Phosphine	Ph 21	/ sample	R 244-00	4 work days
pH	pH 22	/ sample	R 90-00	4 work days

\*\*\* ARC-Plant Health &amp; Protection Research (PHPR)

**VIROLOGY**

Dr. Alison Lubisi

Tel: (012) 529 9233 • LubisiA@arc.agric.za

<b>Test</b>	<b>Method no</b>	<b>Unit</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
<b>Viral Serology</b>				
Lumpy skin disease: Neutralization test 1 - 5 samples	ME_08A	/ sample	R 478-00	7 work days
6 - 10 samples		/ sample	R 450-00	7 work days
> 10 samples		/ sample	R 419-00	7 work days
Equine viral arteritis: Neutralization test 1 - 5 samples	ME_08C	/ sample	R 400-00	7 work days
6 - 10 samples		/ sample	R 377-00	7 work days
> 10 samples		/ sample	R 350-00	7 work days
African Horse Sickness: Indirect ELISA	ME_010	/ sample	R 86-00	7 work days
Bovine virus diarrhoea antibody: Blocking ELISA	ME_003	/ sample	R 250-00	7 work days
Bovine virus diarrhoea antigen: Capturing ELISA	ME_011	/ sample	R 341-00	7 work days
Bluetongue: Competitive ELISA	ME_012	/ sample	R 256-00	7 work days
Equine encephalosis: Indirect ELISA	ME_013	/ sample	R 86-00	7 work days
Infectious bovine rhinotracheitis: Blocking ELISA	ME_005	/ sample	R 88-00	7 work days
Maedi visna: Indirect ELISA	ME_014	/ sample	R 88-00	7 work days
Newcastle disease: Indirect ELISA	ME_006	/ sample	R 101-00	7 work days
Haemagglutination inhibition	ME_002	/ sample	R 112-00	7 work days
Para-influenza 3: Indirect ELISA	ME_015	/ sample	R 86-00	7 work days
Rift Valley Fever: Indirect IgG	ME_016b	/ sample	R 86-00	7 work days
Capture IgM	ME_016a	/sample	R 86-00	7 work days
Double antigen ELISA	ME_016	/ sample	R 172-00	7 work days
Neutralization Test 1 – 5 samples	ME_016	/ sample	R 478-00	7 work days
Neutralization Test 6 - 10 samples	ME_016	/ sample	R 450-00	7 work days
Neutralization Test > 10 samples	ME_016	/ sample	R 419-00	7 work days
Equine Influenza: Haemagglutination inhibition - Huguenot	ME_18A	/ sample	R 112-00	7 work days
Haemagglutination inhibition - Prague	ME_18B	/ sample	R 112-00	7 work days
Bovine leucosis virus: Indirect ELISA	ME_19C	/ sample	R 258-00	7 work days
Blocking ELISA	ME_19A	/ sample	R 222-00	7 work days
Agar Gel Immunodiffusion	ME_19B	/ sample	R 134-00	7 work days
Porcine Respiratory & Reproductive syndrome Virus (PRRS) Indirect ELISA	ME_004	/ sample	R 215-00	7 work days
Avian influenza: H5 Haemagglutination inhibition	ME_002	/ sample	R 92-00	7 work days
H6 Haemagglutination inhibition	ME_002	/ sample	R 46-00	7 work days
H7 Haemagglutination inhibition	ME_002	/ sample	R 46-00	7 work days
ELISA	ME_007	/ sample	R 46-00	7 work days
Influenza A viruses ELISA		/ sample	R 91-00	7 work days
Wesselsbron: Haemagglutination inhibition	ME_021	/ sample	R 112-00	7 work days
Caprine Arthritis Encephalitis Blocking ELISA	ME_022	/ sample	R 88-00	7 work days
West Nile virus Blocking ELISA	ME_024	/ sample	R 293-00	7 work days
Chlamydia: Indirect ELISA	ME_042	/ sample	R 222-00	7 work days
Equine herpes virus 1: Indirect ELISA	ME_027	/ sample	R 413-00	7 work days
Equine herpes virus 4: Indirect ELISA	ME_027	/ sample	R 413-00	7 work days
Equine infectious anemia: Agar Gel Immunodiffusion	ME_028	/ sample	R 134-00	7 work days
Classical Swine Fever: Competitive Antibody ELISA	ME_029	/ sample	R 214-00	7 work days
Others			On request	

**VIROLOGY**

Dr. Alison Lubisi

Tel: (012) 529 9233 • LubisiA@arc.agric.za

**-VIRUS ISOLATION -**

<i>Test</i>	<i>Method No</i>	<i>Unit</i>	<i>Incl. VAT</i>
<b>The prices below include professional fee</b>			
SPF-eggs (all routes)	ME_30B	/ sample	R 2 280-00
SPF-eggs (all routes) – One passage i.e propagation	ME_30B	/sample	R 924-00
Virus isolation – mice	ME_031	/ sample	R 1 680-00
Virus isolation – tissue culture (plates)	ME_32A	/ isolation (1-5 samples)	R 858-00
Virus isolation – tissue culture (tubes)	ME_32C	/ isolation	R 858-00
Virus isolation – tissue culture (flasks)	ME_32C	/ isolation	R 858-00
Virus propagation – tissue culture (big flask)	ME_32C	/ sample (1 passage)	R 462-00
Virus propagation – tissue culture (medium flask)	ME_32C	/ sample (1 passage)	R 330-00
Autogenous vaccine (papillomas)	N/A	/ vial	R 316-25
Virus identification FA stain			On request
<b>Turnover time for virus isolation 1 Month</b>			

**REFERENCE LABORATORY FOR AFRICAN HORSESICKNESS AND BLUETONGUE**

Dr. Alison Lubisi

Tel: (012) 5299 9233 • LubisiA@arc.agric.za

<i>Test</i>	<i>Method No</i>	<i>Unit</i>	<i>Incl. VAT</i>
Typing of African Horsesickness virus or serum (9 serotypes)	ME_35A	/ sample	R 3 555-00
Typing of African Horsesickness virus or serum /plasma (1 serotype)	ME_35A	/ sample	R 478-00
Typing of Bluetongue virus or serum / plasma (24 serotypes)	ME_36A	/ sample	R 6 111-00
Typing of Bluetongue virus or serum (1 serotype)	ME_36A	/ sample	R 478-00
Typing of EEV	ME_037	/ sample	On request
Reagent Virus (AHS, BT, EEV)		/ sample	R 278-00
Reagent Type specific sera		/ sample	R 278-00
<b>Turnover time for typing 2 weeks - 2 Months</b>			

**TRANSBOUNDARY ANIMAL DISEASES PROGRAMME**

Dr. Livio Heath

Tel: (012) 529 9585 • HeathL@arc.agric.za

<b>Test</b>	<b>Unit</b>	<b>Incl. VAT</b>	<b>Average turnover time</b>
<b>Foot and mouth Disease (FMD)</b>			
ELISA	/serotype	R 296-00	4 work days
NSP ELISA	/animal	R 241-00	4 work days
Typing ELISA	/animal	R 296-00	4 work days
VNT	/serotype	R 431-00	8 work days
Virus isolation	/animal	R 590-00	5 work days
PCR	/animal	R 2 434-00	4 work days
Testing of embryo fluids (PCR)	/pool of 10	R 2 434-00	4 work days
<b>African Swine Fever (ASF)</b>			
ELISA	/animal	R 324-00	4 work days
Virus isolation - bone marrow culture	/animal	R 590-00	5 work days
PCR	/animal	R 2 434-00	4 work days
<b>Classical Swine Fever (CSF)</b>			
Antigen ELISA	/organ	R 307-00	4 work days
Virus isolation - bone marrow culture	/animal	R 383-00	5 work days
PCR	/animal	R 2 434-00	4 work days
<b>Other</b>			
Aujeszky's Disease Antibody ELISA	/ animal	R 230-00	4 work days
Aujeszky's Disease PCR	/ animal	R 2 434-00	4 work days
Swine Vesicular Disease (SVD) Antibody ELISA	/ animal	R 232-00	4 work days
PRRS PCR	/ animal	R 2 434-00	4 work days
Peste de petit ruminants PCR	/ animal	R 2 434-00	4 work days
Peste de petit ruminants ELISA	/ animal	R 520-00	4 work days
TGE ELISA	/ animal	R 258-00	4 work days
<b>Note:</b> Large consignments (>100 samples) are eligible for an ad hoc discount, on request.			
<b>Reagents: FMD Positive / Negative Serum or antigen available on request</b>			



**RESIDUE ANALYSES**

Dr Ovokeroye Abafe

Tel: (012) 529 9151/ 94 • AbafeO@arc.agric.za

Please see below

**\*\* indicates accredited method**

Diagnostic Pricelist: 2018/2019

Analyte Group	Analytes											Price(incl. VAT)	Average turnover time
		Serum	Feed	Muscle	Liver	Kidney	Fat	Other	method No.	Technique			
Antimicrobials	Tetracyclines, B-lactams, Microlides, Aminoglycosides and Quinolones			X	X	X				MICRO 001	Inhibition test (Four Plate)	R705.00	5-7 work days
Antimicrobials	Tetracyclines B-Lactams Macrolides Aminoglycosides Quinolones							Milk and Egg		MICRO 002	Inhibition test (Two Plate)	R555.00	5-7 work days
Sulfonamides (Total)*	* Request at laboratory which analytes can be detected per matrix.			X	X	X		Egg		ELISA 001	ELISA	R699.00	5-7 work days
Phenicol	Chloramphenicol			X	X	X		Honey		ELISA 005	ELISA	R1 608.00	5-7 work days
Nitrofurantol metabolite	AOZ and AMOZ			X	X	X				ELISA 006	ELISA	R4 494.00	5-7 work days
Flunixin	Flunixin			X	X	X				ELISA 008	ELISA	R2 460.00	5-7 work days
Phenylbutazone	Phenylbutazone			X	X	X				ELISA 009	ELISA	R2 643.00	5-7 work days
B-agonists	Clenbuterol Salbutamol		X							ELISA 012	ELISA	R2 609.00	5-7 work days
Pseudo B-agonist	Zilpaterol		X							ELISA 013	ELISA	R2 160.00	5-7 work days
Stilbenes	Hexesterol Diethylstilbesterol Dienesterol		X			X				ELISA 014	ELISA	R1 767.00	5-7 work days
B-agonists	Ractopamine		X							ELISA 015	ELISA	R1 714.00	5-7 work days
Macrolytic Lactones	Ivermectin Abamectin Moxidectin Doramectin							Milk		<b>HPLC 001</b>	HPLC	R2 079.00	21 work days

Diagnostic Pricelist: 2018/2019

Fluoroquinolones		Norfloxacin Ciprofloxacin Danofloxacin Enrofloxacin			X	X	X	X		<b>HPLC 003</b>	HPLC	R2 412.00	21 work days
Imidocarb		Imidocarb			X	X	X	X		<b>HPLC 005</b>	HPLC	R2 285.00	21 work days
Mycotoxins		Aflatoxin B1, B2, G1, G2		X		X				<b>HPLC 007</b>	HPLC	R2 778.00	21 work days
		Zearalenone				X				<b>HPLC 014</b>	HPLC	R2 434.00	21 work days
		Ocratoxin A					X				<b>HPLC 015</b>	HPLC	R2 434.00
Anthelmintics, Benzimidazoles and Nitroimidazoles	All analytes of the three groups listed below				X	X	X			LCQ003	LC-MS-MS	R5 100.00	21 work days
	Anthelmintics only	Levamisole Closantel Rafoxanide Praziquantel Niclosamide Resorantel										R4 645.00	21 work days
	Benzimidazoles only	Albendazole Oxfendazole Thiabendazole Triclabendazole Fenbendazole Flubendazole										R4 660.00	21 work days
	Nitroimidazoles only	Dimetridazole Metronidazole Ronidazole										R4 377.00	21 work days
Carbamates		Aldicarb Carbaryl Aldicarb Sulfone Aldicarb Sulfoxide				X				LCQ 004	LC-MS-MS	R5 598.00	21 work days
B-Lactams		Amoxicillin Ampicillin Cloxacillin Penicillin G			X	X	X			LCQ 005	LC-MS-MS	R3 588.00	21 work days

Diagnostic Pricelist: 2018/2019

Aminoglycosides		Abramycin Dihydrostreptomycin Gentamycin Hygromycin Kanamycin Neomycin Paromomycin Spectinomycin Streptomycin Tobramycin			X	X	X			LCQ 006	LC-MS-MS	R3 148.00	21 work days
Sulfonamides		Sulfaguanidine (SGD) Sulfadiazine (SDZ) Sulfathiazole (STZ) Sulfamerazine (SMR) Sulfaquinoxaline (SQX) Sulfapyridine (SPD) Sulfamethoxazole (SMTX) Sulfadimidin (SDM) Sulfachloropyridazine (SCP) Sulfadoxine (SDX) Sulfadimethoxine (SDT) Sulfamonomethoxine (SMN) Sulfamethoxyypyridazine (SMP) Sulfanilamide (SNL)							Honey	LCQ 007	LC-MS-MS	R2 342.00	21 work days
Macrolides		Erythromycin Lincomycin Spiramycin Tylosin Tilmicosin Virginiamycin							Honey	LCQ 008	LC-MS-MS	R2 715.00	21 work days
Multi-residue method (Antibiotics and ionophores)	All analytes of the four groups listed below				X	X	X			LCQ 009	LC-MS-MS	R6 590.00	21 work days
	Macrolides only	Erythromycin Lincomycin Spiramycin Tylosin Tilmicosin Virginiamycin										R2 344.00	21 work days

Diagnostic Pricelist: 2018/2019

	Sulfonamides only	Sulfaguandine (SGD) Sulfadiazine (SDZ) Sulfathiazole (STZ) Sulfamerazine (SMR) Sulfaquinoxaline (SQX) Sulfapyridine (SPD) Sulfamethoxazole (SMTX) Sulfadimidin (SDM) Sulfachloropyridazine (SCP) Sulfadoxine (SDX) Sulfadimethoxine (SDT) Sulfamonomethoxine (SMN) Sulfamethoxyipyridazine (SMP) Sulfanilamide (SNL)									R2 069.00	21 work days
	Tetracyclines only	Oxytetracycline Tetracycline Chlortetracycline Doxycycline									R1 965.00	21 work days
	Ionophores / Coccidiostats only	Lasalocid Monensin Maduramycin Salinomycin Naracin									R2 217.00	21 work days
Tetracyclines		Oxytetracycline Tetracycline Chlortetracycline Doxycycline						Honey	LCQ 011	LC-MS-MS	R1 348.00	21 work days
Aminoglycosides		Abramycin Dihydrostreptomycin Gentamycin Hygromycin Kanamycin Neomycin Paromomycin Spectinomycin Streptomycin Tobramycin						Honey	LCQ 015	LC-MS-MS	R3 148.00	21 work days
Resorcylic acid lactones		Zeranol		X	X	X	X		LCQ 016	LC-MS-MS	R3 791.00	21 work days

Diagnostic Pricelist: 2018/2019

Steroids	Trenbolone Testosterone 19 Nor-testosterone Methyl-testosterone Melenesterol acetate Medroxy-progesterone acetate Chlormadinone acetate	X							LCQ 022	LC-MS/MS	R2 668.00	21 work days
Steroids	Trenbolone Testosterone 19 Nor-testosterone Methyl-testosterone Melenesterol acetate Medroxy-progesterone acetate Chlormadinone acetate		X	X	X	X			LCQ 024	LC-MS/MS	R2 668.00	21 work days
B-agonists	Clenbuterol Zilpaterol Salbutamol Ractopamine			X	X	X	X		LCQ 025	LC-MS/MS	R2 668.00	21 work days
Stilbenes	Hexesterol Diethylstilbesterol Dienesterol	X						Urine	LCQ 029	LC-MS-MS	R3 183.00	21 work days
B-agonists	Clenbuterol Zilpaterol Salbutamol Ractopamine	X						Urine	LCQ 030	LC-MS-MS	R2 668.00	21 work days
Resorcylic acid lactones	Zeranol	X	X						LCQ 031	LC-MS-MS	R3 791.00	21 work days
Olaquinox	Olaquinox Methyl-quinoxaline-2- carboxylic acid				X				LCQ 032	LC-MS-MS	R2 525.00	21 work days
Macrolytic Lactones	Ivermectin Abamectin Moxidectin Doramectin				X				LCQ 033	LC-MS-MS	R2 525.00	21 work days

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