

Diagnostic Pricelist 2017/2018

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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. 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 Institute, 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 Institute, 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 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 2017
Content updated: March 2017*

BACTERIOLOGY PCR LABORATORY				
Dr. Nomakorinte Gcebe				
Tel: (012) 529 9140 • GcebeN@arc.agric.za				
Test	Method no.	Incl. VAT	Average turnover time	
Toxin typing				
<i>C. perfringens</i> typing Anaerobic culture will be performed if necessary @ R 354-00 (incl.VAT)	PCR from culture BPME004	R 492-00	4 days	
E.coli				
E.coli O157:H7	Detection BPME006	R 387-00	4 days	
Brucella				
** <i>Brucella</i> spp. Screening	PCR from culture BPME003	R 437-00	3 days	
** <i>Brucella</i> identification including vaccine strains	BPME003	R 586-00	3 days	
Anthrax				
<i>B. anthracis</i> screening (from culture)	culture & PCR BPME005	R 427-00	3 days	
<i>B. anthracis</i> identification	PCR BPME005	R 441-00	2 days	
Sheath Washes				
<i>T. foetus</i> and <i>C.fetus</i> (1-10 samples)	DNA prep. & PCR BPME002	R 415-00	4 days	
<i>T. foetus</i> and <i>C.fetus</i> (>10 samples)	DNA prep. & PCR BPME002	R 373-00	5 days	
<i>T. Foetus</i> or <i>C.fetus</i>	DNA prep & PCR BPME002	R 428-00	4 days	
Other pathogens				
**PIA (<i>Lawsonia</i> & <i>Salmonella</i>)	PCR BPME008	R 387-00	3 days	
** <i>P. multocida</i> type D (1-20 samples)	culture & PCR BPME007	R 348-00	3 days	
** <i>P. multocida</i> type D (>20 samples)	culture & PCR BPME007	R 387-00	4 days	

**Non-accredited tests

BACTERIAL SEROLOGY				
Dr. Andrew Potts Tel: (012) 529 9396 • PottsA@arc.agric.za Microchip numbers: Barcode stickers to be submitted with submission form				
Test	Method no	Unit	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 34-00	5 - 7 work days
<i>Brucella abortus</i> Rose Bengal test Or SAT only	BS/ME001,004	/sample	R 17-00	5 - 7 work days
<i>Brucella abortus</i> CFT	BS/ME005	/sample	R 23-00	7 - 10 work days
CBPP CFT	BS/ME007	/sample	R 34-00	7 - 10 work days
OVINE only (Red / Yellow stopper tube only)				
<i>B. ovis</i> CFT	BS/ME005	/sample	R 39-00	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>B. canis</i> Tube Agglutination Test	BS/ME011	/sample	R 456-00	5-7 days Tue & Wed by 11:00 in the lab
EQUIDS only (Red / Yellow stopper tube only)				
Dourine CFT	BS/ME005	/sample	R 103-00	7-100 days Thursday by 10:00 in the lab
Glanders CFT	BS/ME012	/sample	R 349-00	7 - 10 days Thursday by 10:00 in the lab
Bovine, Caprine and Ovine (Red / Yellow stopper tube only)				
Johne's disease CFT	BS/ME005	/sample	R 117-00	7 - 10 work days
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	R 300-00	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	R 92-00	5 - 7 work days Wednesday by 8:00 in the lab
Bovine Export & Non-Bovine (Red / Yellow stopper tube only)				
<i>Brucella abortus</i> Rose Bengal test & SAT	BS/ME001,004 *BS/NME001,004	/sample	R 57-00	5 – 7 work days
<i>Brucella abortus</i> Rose Bengal test Or SAT only	BS/ME001,004 *BS/NME001,004	/sample	R 28-50	5 - 7work days
<i>Brucella abortus</i> CFT	BS/ME005 *BS/NME005	/sample	R 57-00	7 –10 work days
Non-ovine (Red / Yellow stopper tube only)				
** <i>B. ovis</i> CFT	BS/NME 005	/sample	R 39-00	7 - 10 work days
All Species (Red / Yellow stopper tube only)				
** <i>Brucella melitensis</i> CFT <i>Brucella suis</i>	BS/NME 005	/sample	R 34-00	7 - 10 work days
Non-equids (Red / Yellow stopper tube only)				
**Dourine CFT	BS/NME 005	/sample	R 103-00	7 - 10 days Thursday
Equids (Red / Yellow stopper tube only)				
**CEM CFT	BS/NME 005	/sample	R 63-00	7 -10 days
All species excluding bovine, caprine and ovine (Red / Yellow stopper tube only)				
**Johne's disease CFT	BS/NME 005	/sample	R 117-00	7 - 10 work days
Bovine (Milk with sufficient cream)				
<i>Brucella abortus</i> Milk-ring test	BS/NME 005	/sample	R 31-00	5 – 7 work days
Other				
<i>Leptospira</i> spp. isolation				On request
Supply of Dourine positive control serum		/ml	R 500-00	
Printing of additional report/s		/job	R 100-00	

**Non-accredited tests

GENERAL BACTERIOLOGY				
Dr. Awoke Kidanemariam Tel: (012) 529 9381 • KidanemariamA@arc.agric.za				
<i>Test</i>	<i>Method no</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Sheathwash examination				
** <i>C. fetus</i> or <i>T. foetus</i> culture	BLME003, BLME005	/ sample	R 254-00	7 – 10 days
** <i>C. fetus</i> and <i>T. foetus</i> culture	BLME003 BLME005	/ sample	R 260-00	7 – 10 days
<i>Brucella spp</i>				
Isolation on culture	BLME004	Up to 3 samples	R 306-00	7 – 10 days
Typing	BLME004	Up to 3 samples	R 331-00	7 – 10 days
Aerobic culture (isolation & identification)	BLME001	Up to 3 samples	R 354-00	7 – 10 days
Anaerobic culture (isolation & identification)	BLME002	Up to 3 samples	R 354-00	7 – 10 days
**Antibiogram	BLME 014	/ sample	R 149-00	2 days
<i>Bacillus anthracis (Anthrax)</i>	BL/ME 007	/ sample	R 388-00	3 – 4 days
**Examination of smears		/ smear	R 177-00	1 day
Bacterial typing				
** <i>Klebsiella spp</i>		/ sample	R 526-00	3 – 5 days
** <i>Pasteurella spp</i>	BLME009 BLME011	/ sample	R 627-00	3 – 5 days
<i>Salmonella spp</i>	DFP9709	/ sample	R 667-00	3 – 5 days
** <i>Actinobacillus pleuropneumonia</i>		/ sample	R 371-00	3 – 5 days
FAT (<i>Clostridium spp</i>)	DFP9712	/ sample	R 298-00	3 – 5 days
**<i>Clostridium botulinum</i> toxin determination				
** Screening test	BLME008	/ sample	R 838-00	7 – 10 days
Contagious equine metritis (CEM)	BLME 010	Up to 3 swabs	R 606-00	7 – 10 days
**Fungus (isolation & identification)		/ sample	R 529-00	1 – 3 weeks
**<i>Mycoplasma spp</i> (isolation & identification)		/ sample	R 575-00	7 – 10 days
**Fish Bacterial Kidney Disease	BL/ME 012	/ sample	R 381-00	6 – 8 weeks
**Total Bacterial Cell count of semen sample	BL/ME 013	/ sample	R 378-00	3 – 4 days
Freeze drying / providing freeze dried controls		/ culture	R 1 167-00	

**Non-accredited tests

PARASITES, VECTORS AND VECTOR-BORNE DISEASES - ACAROLOGY

Ms. Heloise Heyne
Tel: (012) 529 9187 / 9364 • HeyneH@arc.agric.za

<i>Test</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>
Identification of ticks / mites	/specimen	R 131-00	
More than one specimen	/hour	R 456-00	
Large consignments of tick specimens – organize with Ms. Heloise Heyne			

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 119-00	2 work days
McMaster Nematode Egg Count		R 99-00	2 work days
Larval Culture and Identification of Infective Larvae of Domesticated Ruminants		R 360-00	14 work days
Larval Culture and Identification of Infective Larvae of Wild Ruminants		R 449-00	14 work days
Pitchford/Visser Trematode Egg Count		R 138-00	2 work days
Worm Recovery	Quotation on request		
Worm Identification	Quotation on request		

PARASITES, VECTORS AND VECTOR-BORNE DISEASES – HEARTWATER PCR

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 422-00	
qPCR & Sequencing	/ sample	R 1 448-00	
Other genes	/ sample	R 630-00	

PARASITES, VECTORS AND VECTOR-BORNE DISEASES				
Mr. Olivier Matthee				
Tel: (012) 529 9199 • MattheeO@arc.agric.za				
Test	Method no	Unit	Incl. VAT	Average turnover time
Smear examination		/ smear	R 113-00	5 work days
Bovine babesiosis IFAT (1 - 19)	SOP Ser 1	/ sample	R 89-00	5 work days
Bovine babesiosis for herd IFAT (minimum 20 samples per herd)	SOP Ser 1	/ sample	R 62-00	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 121-00	5 work days
Heartwater (<i>Cowdria ruminantium</i> : 1 antigen)	SOP Ser 4	/ sample	R 88-00	5 work days
Heartwater for herd	SOP Ser 4	/ sample	R 58-00	5 work days
<i>Toxoplasma gondii</i> – card agglutination test		/ sample	R 372-00	5 work days
<i>Trypanosoma</i> (CAT antibody detection – non-specific)		/ sample	R 269-00	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 358-00	Every Thursday, except Public Holidays
<i>Leishmania</i> spp. IFAT Determination of <i>Leishmania</i> spp status	SOP Ser 6	/ sample	R 687-00	Every Thursday, except Public Holidays
Equine piroplasmiasis: Serology: <i>Babesia (Theileria) equi</i> and <i>B caballi</i> IFAT	SOP Ser 2	/ sample	R 334-00	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 167-00	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 1 984-00	10 work days
Theileriosis screening – <i>Theileria</i> genus PCR & <i>T. taurotragi</i>	SOP Ser 5.2	/ sample	R 480-00	10 work days
Printing of additional reports		/ job	R 100-00	

BUFFALO TEST PACKAGE			
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 279-00	10 work days

BIOTECHNOLOGY PCR LABORATORY				
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>
African horsesickness virus	ME-015	/ sample	R 350-00	3 work days
Equine encephalosis virus		/ sample	R 350-00	3 work days
Equine herpes virus 1 & 4		/ sample	R 320-00	3 work days
Bovine malignant catarrhal fever virus	ME-013			
Identification of wildebeest- & sheep-associated forms		/ sample	R 430-00	3 work days
Identification of wildebeest- OR sheep- associated form		/ sample	R 350-00	3 work days
Newcastle disease virus				
Newcastle disease virus-serogroup	ME-005	/ sample	R 300-00	3 work days
Newcastle disease avirulent / virulent	ME-003	/ sample	R 360-00	3 work days
Avian influenza virus				
All influenza A viruses	ME-016	/ sample	R 300-00	3 work days
Influenza H5 and H7subgroups		/ sample	R 400-00	3 work days
Influenza H5 or H7 subgroups		/ sample	R 300-00	3 work days
Bovine viral diarrhoea virus & Border disease viruses		/ sample	R 400-00	3 work days
Infectious bronchitis virus		/ sample	R 350-00	3 work days
Lumpy skin disease virus	ME-010	/ sample	R 350-00	3 work days
Bluetongue virus	ME-025	/ sample	R 350-00	3 work days
Rift Valley fever virus	ME-023	/ sample	R 350-00	3 work days
West Nile virus		/ sample	R 350-00	3 work days
Bovine ephemeral fever virus		/ sample	R 350-00	3 work days
Chlamydia	ME-026	/ sample	R 350-00	3 work days
Bovine herpesvirus 1		/ sample	R 350-00	3 work days
Leptospira spp.	ME-028	/ sample	R 350-00	3 work days
Infectious bursal disease: vaccine and very virulent		/ sample	R 430-00	3 work days
Infectious salmon anaemia virus		/ sample	R 350-00	3 work days
Mycoplasma		/ sample	R 300-00	3 work days
Discounts: (a) Multiple tests per sample, R80-00 (Incl VAT) discount for each additional test				
(b) 5–10 samples: R23-00 (incl VAT) discount for each sample				
(c) 11-15 samples: R27-00 (incl. VAT) discount for each sample				
(d) 16-20 samples: R30-00 (incl. VAT) discount for each sample				
(e) > 21 samples: R33-00 (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. Keleabetswe Malepe
 Tel: (012) 529 9420 • MalepeK@arc.agric.za

RABIES Dr. Keleabetswe Malepe Tel: (012) 529 9420 • MalepeK@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 388-00	1 work day
Neutralization test	/ sample	R 1 067-00	15 work days
Printing of additional reports	/ job	R 100-00	

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 400-00	14 work days

DIAGNOSTIC SUPPLIES Dr. Laura Lopez Tel: (012) 529 9272 • DiagReg@arc.agric.za			
Will only be ordered on request			

TOXICOLOGY

Mrs. Heleen Coetzer

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

Test	Method no	Unit	Incl. VAT	Average turnover time
Pesticides	Pest 09	/ sample	R 699-00	4 work days
Strychnine	Str 10	/ sample	R 398-00	4 work days
Arsenic	As 11	/ sample	R 256-00	4 work days
Mycotoxins				
Total Aflatoxin Elisa **	first sample	Myc 01	R 1 111-00	4 work days
Total Aflatoxin Elisa **	2 - 20 samples	Myc 01	R 408-00	4 work days
Ochratoxin Elisa **	first sample	Myc 04	R 1 331-00	4 work days
Ochratoxin Elisa **	2 – 20 samples	Myc 04	R 556-00	4 work days
Zearelenone Elisa **	first sample	Myc 06	R 1 161-00	4 work days
Zearelenone Elisa **	2 - 20 samples	Myc 06	R 556-00	4 work days
Microcystin Elisa	first sample	Mic 30	R 1 942-00	4 work days
Microcystin Elisa	2 – 20 samples	Mic 30	R 390-00	4 work days
Deoxynivalenol Elisa **	first sample	Myc 02	R 1 331-00	4 work days
Deoxynivalenol Elisa **	2 – 20 samples	Myc 02	R 556-00	4 work days
Fumonisin Elisa	first sample	Myc 03	R 1 331-00	4 work days
Fumonisin Elisa	2 - 20 samples	Myc 03	R 556-00	4 work days
T2/HT-2 Toxin Elisa **	first sample	Myc 05	R 1 331-00	4 work days
T2/HT-2 Toxin Elisa **	2 - 20 samples	Myc 05	R 556-00	4 work days
Ionophore screen	Ion 12	/ sample	R 649-00	6 work days
Ionophore quantified	Ion 13	/ sample	R 791-00	6 work days
Urea / Ammonia / Ammonium chloride	Ur 15	/ sample	R 424-00	4 work days
Sodium chloride	Na 16	/ sample	R 498-00	4 work days
Cyanide	Cya 29	/ sample	R 400-00	4 work days
Trace elements:Cu,Fe, Zn, Mn, PO ₄ in tissue	TE 17	/ sample	R 391-00	6 work days
Electrolytes (Ca, Mg, Na, K, PO ₄ (serum))	E 23	/ sample	R 238-00	4 work days
Nitrate / Nitrite	NO 24	/ sample	R 150-00	4 work days
Monofluoro-acetate (1080)	Mo 18	/ sample	R 374-00	5 work days
Plant identification	PI 25	/ sample	R 210-00	10 work days
Fungi identification	FI 26		Client pays PPRI***	
Handling fee (advice)			R 130-00	
Lead in organs	Pb 20	/ sample	R 379-00	4 work days
Gossypol	Gos 08	/ sample	R 707-00	6 work days
Phosphine	Ph 21	/ sample	R 200-00	4 work days
pH	pH 22	/ sample	R 112-00	4 work days

** Accredited Test

*** ARC-Plant Protection Research Institute (PPRI)

VIROLOGY						
Dr. Alison Lubisi						
Tel: (012) 529 9233 • LubisiA@arc.agric.za						
<i>Test</i>	<i>Method no</i>	<i>Unit</i>	<i>Incl. VAT</i>	<i>Average turnover time</i>		
<u>Viral Serology</u>						
Lumpy skin disease:	Neutralization test	1 - 5 samples	ME_08A	/ sample	R 430-00	7 work days
		6 - 10 samples		/ sample	R 405-00	7 work days
		> 10 samples		/ sample	R 377-00	7 work days
Equine viral arteritis:	Neutralization test	1 - 5 samples	ME_08C	/ sample	R 360-00	7 work days
		6 - 10 samples		/ sample	R 339-00	7 work days
		> 10 samples		/ sample	R 315-00	7 work days
African Horse Sickness:	Indirect ELISA		ME_010	/ sample	R 78-00	7 work days
Bovine virus diarrhoea antibody:	Blocking ELISA		ME_003	/ sample	R 225-00	7 work days
Bovine virus diarrhoea antigen:	Capturing ELISA		ME_011	/ sample	R 307-00	7 work days
Bluetongue:	Competitive ELISA		ME_012	/ sample	R 230-00	7 work days
Equine encephalosis:	Indirect ELISA		ME_013	/ sample	R 78-00	7 work days
Infectious bovine rhinotracheitis:	Blocking ELISA		ME_005	/ sample	R 79-00	7 work days
Maedi visna:	Indirect ELISA		ME_014	/ sample	R 78-00	7 work days
Newcastle disease:	Indirect ELISA		ME_006	/ sample	R 91-00	7 work days
	Haemagglutination inhibition		ME_002	/ sample	R 100-00	7 work days
Para-influenza 3:	Indirect ELISA		ME_015	/ sample	R 78-00	7 work days
Rift Valley Fever:	Indirect IgG		ME_016b	/ sample	R 78-00	7 work days
	Capturing IgM		ME_016a			
	Double antigen ELISA		ME_016	/ sample	R 154-00	7 work days
Equine Influenza:	Indirect ELISA		ME_017	/ sample	R 78-00	7 work days
	Haemagglutination inhibition - Huguenot		ME_18A	/ sample	R 100-00	7 work days
	Haemagglutination inhibition - Prague		ME_18B	/ sample	R 100-00	7 work days
Bovine leucosis virus:	Indirect ELISA		ME_19C	/ sample	R 200-00	7 work days
	Blocking ELISA		ME_19A	/ sample	R 200-00	7 work days
	Agar Gel Immunodiffusion		ME_19B	/ sample	R 121-00	7 work days
Porcine Respiratory & Reproductive syndrome Virus (PRRS)	Indirect ELISA		ME_004	/ sample	R 193-00	7 work days
Avian influenza: H5	Haemagglutination inhibition		ME_002	/ sample	R 41-00	7 work days
H6	Haemagglutination inhibition		ME_002	/ sample	R 41-00	7 work days
H7	Haemagglutination inhibition		ME_002	/ sample	R 41-00	7 work days
	ELISA		ME_007	/ sample	R 41-00	7 work days
Influenza A viruses	ELISA			/ sample	R 82-00	7 work days
Wesselsbron:	Haemagglutination inhibition		ME_021	/ sample	R 100-00	7 work days
Caprine Arthritis Encephalitis	Blocking ELISA		ME_022	/ sample	R 79-00	7 work days
West Nile virus:	Haemagglutination inhibition		ME_023	/ sample	R 84-00	7 work days
	Blocking ELISA		ME_024	/ sample	R 264-00	7 work days
Chlamydia:	Indirect ELISA		ME_042	/ sample	R 200-00	7 work days
Equine herpes virus 1:	Indirect ELISA		ME_027	/ sample	R 372-00	7 work days
Equine herpes virus 4:	Indirect ELISA		ME_027	/ sample	R 372-00	7 work days
Equine infectious anemia:	Agar Gel Immunodiffusion		ME_028	/ sample	R 121-00	7 work days
Classical Swine Fever:	Blocking ELISA		ME_029	/ sample	R 192-00	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>
The prices below includes professional fee			
SPF-eggs (all routes)	ME_30B	/ each	R 2 052-00
SPF-eggs (all routes) – One passage	ME_30B	/sample	R 756-00
Virus isolation – mice	ME_031	/ isolation	R 1 512-00
Virus isolation – tissue culture (plates)	ME_32A	/ isolation (1-5 samples)	R 702-00
Virus isolation – tissue culture (flasks)	ME_32C	/ isolation	R 702-00
Virus propagation – tissue culture (big flask)	ME_32C	/ sample (1 passage)	R 378-00
Virus propagation – tissue culture (medium flask)	ME_32C	/ sample (1 passage)	R 270-00
Autogenous vaccine (papillomas)			On request
Virus identification FA stain			On request
Turnover time for virus isolation 1 Month			

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>
Virus neutralization	Typing of African Horsesickness	ME_35A	/ sample
	Typing of Bluetongue	ME_36A	/ sample
Virus neutralization	Typing of African Horsesickness Antibodies	ME_35B	/ sample
	Typing of serum for Bluetongue	ME_36B	/ sample
	Typing of EEV	ME_037	/ sample
Reagent	Virus (AHS, BT, EEV)		/ sample
Reagent	Type specific sera		/ sample
Turnover time for typing 2 Months			

ELECTRON MICROSCOPY			
Mr. John Putterill Tel: (012) 529 9175 • PutterillJ@arc.agric.za			
Service	Unit	Incl. VAT	Average turnover time
Electron microscopy – Negative Staining	/ sample	R 154-00	2-3 work days
Transmission Electron Microscopy Project	/ sample	On request	
Scanning electron microscopy project		On request	
Digitizing and archiving of images onto CD / DVD	/ image scan	On request	

TRANSBOUNDARY ANIMAL DISEASES PROGRAMME			
Dr. Livio Heath Tel: (012) 529 9585 • HeathL@arc.agric.za			
Test	Unit	Incl. VAT	Average turnover time
Foot and mouth Disease (FMD)			
ELISA	/serotype	R 262-00	4 work days
NSP ELISA	/animal	R 243-00	4 work days
Typing ELISA	/animal	R 249-00	4 work days
VNT	/serotype	R 389-00	8 work days
Virus isolation	/animal	R 588-00	5 work days
PCR	/animal	R 2 081-00	4 work days
Sequencing	/animal	R 2 225-00	10 work days
Testing of embryo fluids (PCR)	/pool of 10	R 1 854-00	4 work days
Heat inactivation of sera	/sample	R 11-00	
African Swine Fever (ASF)			
ELISA	/animal	R 285-00	4 work days
Virus isolation - bone marrow culture	/animal	R 588-00	5 work days
PCR	/animal	R 1 854-00	4 work days
Sequencing	/animal	R 2 225-00	10 work days
Classical Swine Fever (CSF)			
Antigen ELISA	/organ	R 229-00	4 work days
Virus isolation - bone marrow culture	/animal	R 588-00	5 work days
PCR	/animal	R 1 854-00	4 work days
Sequencing	/ animal	R 2 225-00	10 work days
Other			
Aujeszky's Disease Antibody ELISA	/ animal	R 186-00	4 work days
Aujeszky's Disease PCR	/ animal	R 1 854-00	4 work days
Swine Vesicular Disease (SVD) Antibody ELISA	/ animal	R 240-00	4 work days
Swine Vesicular Disease (SVD) PCR	/ animal	R 1 575-00	4 work days
Mycoplasma PCR	/ animal	R 1 788-00	3 work days
PRRS PCR - American Strain	/ animal	R 1 854-00	4 work days
PRRS PCR - European Strain	/ animal	R 1 854-00	4 work days
Peste de petit ruminants PCR	/ animal	R 1 854-00	4 work days
Peste de petit ruminants ELISA	/ animal	R 509-00	4 work days
TGE ELISA	/ animal	R 260-00	4 work days
Vesicular Stomatitis (VS) PCR	/ animal	R 1 575-00	4 work days
Note: Large consignments (>100 samples) are eligible for an ad hoc discount, on request.			
Reagents: FMD Positive / Negative Serum or antigen available on request			

RESIDUE ANALYSES

Dr Ovokeroye Abafe

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

Please see below

**** indicates accredited method**

Turnover time: Confirmation: 10 – 15 work days
Screening: 3 – 7 work days
Projects: Determined individually

Diagnostic Pricelist: 2017/2018

Analyte Group	Analytes	Matrix											Method no	Technique	Price (Incl. VAT)	
		Honey	Milk	Eggs	Serum	Feed	Muscle	Liver	Kidney	Fat	Prawn / Fish	Other				
Screening																
Antimicrobials	Tetracyclines B-Lactams Macrolides Aminoglycosides Quinolones					X*	X	X	X					MICRO 001	Fourplate test + pH 7.2 <i>E. coli</i> plate	658,00
Antimicrobials	Tetracyclines B-Lactams Macrolides Aminoglycosides Quinolones		X	X										MICRO 002	Kundrat + pH 7.2 <i>E. coli</i> plate	518,00
Sulfonamides	Sulfadimethoxine Sulfadimidine			X			X	X	X					ELISA 001	ELISA (International Diagnostic)	653,00
Pseudo B-agonist	Zilpaterol					X*			X					ELISA 002	ELISA (Bio Scientific)	1656,00
Phenicol	Chloramphenicol	X	X			X	X	X	X		X			ELISA 005	ELISA (Eurodiagnostica kit)	1502,00
Nitrofurantolone	AOZ AMOX						X	X	X		X			ELISA 006	ELISA (Ridascreen r-Biopharm kit)	4198,00
Flunixin	Flunixin						X	X	X					ELISA 008	ELISA (Neogen)	1602,00
Phenylbutazone	Phenylbutazone						X	X	X					ELISA 009	ELISA (Neogen)	2020,00
B-agonists	Clenbuterol Salbutamol				X	X								ELISA 012	ELISA (Bio Scientific)	2020,00
Stilbenes	Hexesterol Diethylstilbesterol Dienesterol					X			X					ELISA 014	ELISA (Bio Scientific)	1650,00
B-agonists	Ractopamine					X								ELISA 015	ELISA (Bio Scientific)	1601,00
Confirmation tests (HPLC)																
Macrolytic Lactones	Ivermectin Abamectin Moxidectin Doramectin			X			X	X	X	X	X			HPLC 001	HPLC	1942,00
Fluoroquinolones	Norfloxacin Ciprofloxacin Danofloxacin Enrofloxacin		X		X		X	X	X	X				HPLC 003	HPLC	1384,00
Imidocarb	Imidocarb						X	X	X	X				HPLC 005	HPLC	2192,00
Mycotoxins	Aflatoxin M1		X											HPLC 006	HPLC	2362,00

Diagnostic Pricelist: 2017/2018

Mycotoxins	Aflatoxin B1, B2, G1, G2					X		X					HPLC 007	HPLC	2528,00
Tetracyclines	Oxytetracycline Tetracycline Chlortetracycline Doxycycline	X											HPLC 008	HPLC	1161,00
Tetracyclines	Oxytetracycline Tetracycline Chlortetracycline Doxycycline						X	X	X				HPLC 009	HPLC	1259,00
Resorcylic acid lactones	Zeranol							X	X	X			HPLC 013	HPLC	3541,00
Mycotoxins	Zearalenone						X	X	X				HPLC 014	HPLC	2274,00
Mycotoxins	Ocratoxin A							X					HPLC 015	HPLC	2274,00
Olaquinox	Olaquinox			X			X	X	X				HPLC 016	HPLC	2449,00
Tetracyclines	Oxytetracycline Tetracycline Chlortetracycline Doxycycline		X		X								HPLC 017	HPLC	1213,00
Trimethoprim	Trimethoprim				X		X	X	X				HPLC 018	HPLC	2747,00
Chlorsulon	Chlorsulon								X				HPLC 020	HPLC	2327,00
Nitroxinil	Nitroxinil							X					HPLC 021	HPLC	3678,00
Confirmation tests (LC-MS/MS)															
Organochlorine and organophosphatePesticides	*LC-MS/MS List available on request GC-MS/MS analysis: Aldrin alpha -BHC DDT and metabolites Dieldrin Heptachlor epoxide Heptachlor Chlordane Oxychlordane HCB							X					LCQ 002	LC-MS/MS and GC-MS/MS	5565,00

Diagnostic Pricelist: 2017/2018

Anthelmintics, Benzimidazoles and Nitroimidazoles	Albendazole Oxfendazole Thiabendazole Triclabendazole Fenbendazole Levamisole Closantel Rafoxanide Praziquantel Niclosamide Resorantel Oxyclosanide Dimetridazole Metronidazole Ronidazole		X					X	X	X		X		LCQ003	LC-MS-MS	3794,00
Carbamates	Aldicarb Carbaryl Aldicarb Sulfone Aldicarb Sulfoxide								X					LCQ 004	LC-MS-MS	5229,00
B-Lactams	Amoxicillin Ampicillin Cloxacillin Penicillin G		X					X	X	X				LCQ 005	LC-MS-MS	2693,00
Aminoglycosides	Dihydrostreptomycin Gentamycin Kanamycin Neomycin Spectinomycin Streptomycin							X	X	X				LCQ 006	LC-MS-MS	2940,00
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) Sulfamethoxyipyridazine (SMP) Sulfanilamide (SNL)		X											LCQ 007	LC-MS-MS	2188,00
Macrolides	Erythromycin Lincomycin Spiramycin Tylosin Tilmicosin Virginiamycin		X					X	X	X				LCQ 008	LC-MS-MS	2536,00
Macrolides	Kitasamycin				X									LCQ 009	LC-MS-MS	2289,00

Diagnostic Pricelist: 2017/2018

Sulfonamides	Sulfaguandine (SGD) Sulfadiazine (SDZ) Sulfathiazole (STZ) Sulfamerazine (SMR) Sulfaquinoxaline (SQX) Sulfapyridine (SPD) Sulfamethoxazole (SMTX) Sulfadimidin (SDM) Sulfachloropyridazine (SCP) Sulfadoxine (SDX) Sulfadimethoxine (SDT) Sulfamonomethoxine (SMN) Sulfamethoxy-pyridazine (SMP) Sulfanilamide (SNL)						X	X	X				LCQ 010	LC-MS-MS	2528,00
Tetracyclines	Oxytetracycline Tetracycline Chlortetracycline Doxycycline	X					X	X	X				LCQ 011	LC-MS-MS	1259,00
B-Lactams	Amoxicillin Ampicillin Cloxacillin Penicillin G		X										LCQ 012	LC-MS-MS	2528,00
Cephalosporins	Cephalonium		X										LCQ 013	LC-MS-MS	3570,00
Aminoglycosides	Dihydrostreptomycin Gentamycin Kanamycin Neomycin Spectinomycin Streptomycin	X											LCQ 015	LC-MS-MS	2940,00
Resorcylic acid lactones	Zeranol					X							LCQ 016	LC-MS-MS	2274,00
Ionophores / Coccidiostats	Lasalocid Monensin Maduramycin Salinomycin Naracin						X	X	X				LCQ 017	LC-MS-MS	2362,00
Ionophores / Coccidiostats	Lasalocid Monensin Maduramycin Salinomycin Naracin			X									LCQ 019	LC-MS-MS	2362,00
Steroids	Trenbolone 19 Nor-testosterone Methyl-testosterone Melengesterol acetate Medroxy-progesterone acetate Chlormadinone acetate				X								LCQ 022	LC-MS/MS	2492,00

Diagnostic Pricelist: 2017/2018

Steroids	Trenbolone 19 Nor-testosterone Methyl-testosterone Melenigestrol acetate Medroxy-progesterone acetate Chlormadinone acetate		X				X	X	X	X			LCQ 024	LC-MS/MS	2492,00
B-agonists	Clenbuterol Zilpaterol Salbutamol Ractopamine							X	X	X	X		LCQ 025	LC-MS/MS	2492,00
Nitrofurantol metabolites	AHD AMOZ AOZ SEM							X	X	X		X	LCQ 026	LC-MS-MS	3288,00
Novaluron	Novaluron							X	X	X	X		LCQ 027	LC-MS-MS	3579,00
Amprolium	Amprolium			X									LCQ 028	LC-MS-MS	3579,00
Confirmation tests (GC-MS/MS)															
Phosphomycin	Phosphomycin								X	X	X		GCMSMS 001	GC-MS-MS	2697,00
Amitraz	Amitraz		X					X	X	X			GCMSMS 002	GC-MS/MS	2781,00
Outsourcing															
Pyrethroids	Cypermethrin Deltamethrin Flumethrin Cyhalothrin Fenvalerate Permethrin							X	X	X			OS 1	GC-ECD	2235,00
Organochlorine Pesticides	Aldrin alpha -BHC, beta-BHC DDT and metabolites Endrin Dieldrin Heptachlor epoxide Heptachlor Chlordane Oxychlordane HCB PCBs											X	OS2	GC-MS	3235,00
Organophosphate Pesticides	Chlorfenvinphos Primiphos Chlorpyrifos Fenitrothion Malathion Dichlorphos Trichlorphos Diazinon								X				OS3	GC-MS	2521,00

Diagnostic Pricelist: 2017/2018

Heavy metals	Arsenic Cadmium Lead Mercury								X					OS 4	ICP-MS	1290,00
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