

ARC INFRUITEC-NIETVOORBIJ

APPLICATION FOR DIAGNOSTIC AND ANALYTICAL SERVICES - 2020/2021

LIST OF POSSIBLE SERVICES		Parts of the form to be completed					
APPLICATION FOR:	Mark with X	A	B	C	D	E	F
Fungal pathogen isolation & identification		A	B	C	D		F
PCR analysis for bacterial pathogen		A	B				F
PCR analysis for phytoplasm		A	B				F
Nematode analysis		A	B				F
Bud analysis for mites		A					F
Bud analysis for fertility		A					F
Mealybug Trap counts		A	B				F
Insect & Mite Identification		A	B				F
Other entomological service (specify)		A	B				F
On farm consultation		A	B				F
Proteomics analysis		A				E	F
AGRI-Food Analytic Laboratory		A	B				F
DNA Analysis (plants)		A	B				F
Soil Enzyme Activities (soil quality/fertility)		A	B	C			F
Microbial Analysis		A	B				F
Cellar Services		A	B				F

PARTICULARS OF CLIENT

A

CUSTOMER

SAMPLE BROUGHT IN BY

Surname: _____

Surname: _____

Name: _____

Name: _____

Farm: _____

Farm: _____

Address: _____

Address: _____

Postal code: _____

Postal code: _____

VAT no.: _____

VAT no.: _____

Tel. no.: _____

Tel. no.: _____

Cell no.: _____

Cell no.: _____

e-mail: _____

e-mail: _____

Order no: _____

Account to:

Producer

Other

Internal - ARC Project #:

Invoice Address: _____

INFORMATION ON CROP**B**

Crop: Apple

Apricot

Pear

Plum

Peach

Nectarine

Table grapes

Wine grapes

Fynbos

Wine

Other (Specify):

Cultivar: _____

Age / Plant date: _____

Rootstock: _____

Nursery: _____

Certified material? _____

INFORMATION ON SAMPLE & SYMPTOMS**C**

Sample: Complete plant

Distribution of symptoms:

Leaves

Single plants (Enkele plante)

Fruit

In patches (Kol-kol)

Shoots

Scattered (Verspreid)

Stem/Trunk

Large area (give ± % of block affected)

Roots

Soil

Appearance:

Sudden	Gradual
New	Old growth

On:

New	Maturing	Old growth
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Other (Specify): _____

Soil type: _____

Water source: _____

Terrain:

Sloped	Level	Low
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Drainage:

Good	Moderate	Poor
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Irrigation: _____

GENERAL REMARKS**D**

Last three fungicides and/or insecticides applied? _____

Fertilisers used recently: _____

Herbicides applied: _____

Previous nematode analysis:

YES	NO
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Date of analysis: _____

Reason for this analysis /
Description of symptoms /
Comments: _____

PROTEOMIC SAMPLE INFORMATION

E

Type: microbial culture	<input type="text"/>	Organism/Species:	rattus	<input type="text"/>
animal tissue	<input type="text"/>		<i>E. coli</i>	<input type="text"/>
plant tissue	<input type="text"/>		<i>Saccharomyces</i>	<input type="text"/>
intact protein	<input type="text"/>		other (specify)	<input type="text"/>
protein extract	<input type="text"/>	Sample Form:	Describe: e.g. gel (1D/2D/native) and staining method (Coomassie; H&E, silver stain, etc), tissue section, dry, in solution (Specify buffer component and concentrations)	
tryptical digests	<input type="text"/>			
peptides	<input type="text"/>			
polymers	<input type="text"/>			
other (specify)	<input type="text"/>			

FOR EACH SAMPLE THE FOLLOWING INFORMATION MUST BE PROVIDED

Sample number	Sample Name	MW(kDa)	Amount (mg) OR Concentration (mg/mL)	Transport/Storage/Package (dry ice, sunlight, etc)	Safety and toxicity considerations where applicable
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Please indicate # of samples ↓

Plant Pathology

			Price / sample
Fungal pathogens	Visual identification (No report)		Free
	Visual identification with report		R320.00
	Isolation from plant material		R900.00
	Isolation from soil / ARD		Price on request
Bacterial pathogens	PCR analysis		R785.00
Phytoplasm	PCR analysis		R815.00

Entomology / Nematology

Nematodes	Extraction, identification and counting of plant-parasitic nematodes up to genus level from roots & plant material		R160.00
	Extraction, identification and counting of plant-parasitic nematodes up to genus level from soil		R215.00
	Extraction, identification and counting of plant-parasitic nematodes up to genus level from roots & plant material and soil		R370.00
	Species-specific PCR for the identification of plant-parasitic nematodes up to species level		R585.00
Bud analysis	Bud analysis for mites (Cost per bunch of 12 canes - 3 buds per cane)		R230.00
	Bud analysis for fertility		R 6.95 per bud
Mealybug Trap counts			R30 per trap
Insect & Mite Identification	Visual identification (No report)		Free
	Visual identification with report		R320.00
	Red spider mite analysis (per sample, max. 10 plants per sample)		R270.00
	Cyclamen mite analysis (per sample, max. 10 plants per sample)		R220.00
	Taxonomic ID up to species level (AcFR:)		Price on request
Other (specify):			Price on request

Consultation

On Farm Consultation	Km-tariff (price per km)		R6.50
	Travel time rates (price per hour)		R300.00
	Consultation - time on farm (price per hour)		R600.00

Proteomic Services

Preliminary discussions on the optimized study designs are strongly recommended before sample submission. In particular, 1D/2D SDS PAGE samples must be submitted accompanied by a matching and labelled copy of the gel image in the proper front orientation, i.e., MW markers on the left, dye front at the bottom, where applicable.

Price on request

AGRI-Food Analytic Laboratory

Alpha Wine Analyzer (FT-IR Analysis)	Must – (°Balling, pH, Total Acidity (TA), Total sugar)		R130 per sample
	Fermenting Must – (Alcohol, Fructose, Glucose, Malic acid [MA], TA, Total sugar)		
	Wine – (Volatile acidity [VA], Alc, Fruc, Gluc, MA, pH, TA, Tot sug)		
	Table grape analysis - (°Balling, pH, TA)		
HPLC Analysis:	Flavonoids	1) Flavonols 2) Anthocyanins 3) Tannins 4) Flavanols	R1020
GC-FID Analysis:	Esters		Price on request
	Higher alcohols		Price on request
	Total fatty acids		Price on request

Other:

Specify:

DNA Analysis

Fingerprinting of plant material	1st sample using (RAPD, ISSR)		R2,835.00
	Subsequent samples		R815.00
	Microsatellite analysis (per sample)		R1,315.00

Soil Enzyme Activities (soil quality/fertility)

β-Glucosidase		R227.00
Acid-Phosphatase		R227.00
Alkaline-Phosphatase (on request)		R227.00
Urease		R227.00
Soil Alteration Index 3 (AI3)		R567.00

Microbial Analysis

Fingerprinting of yeast	1 Sample		R4,195.00
	2 samples		R2,100.00
	3 Samples		R1,420.00
	4-12 Samples		R1,100.00
	Urgent samples / yeast		R6,975.00

Microbial Analyses	Total yeast and bacteria: Bottled wine (two membrane filter method)		R340.00
	Total yeast cell counts: must; cloudy juice; active dried wine yeast		R480.00
	Total bacteria bell counts: must; wine undergoing MLF; MLB cultures		R480.00
	Total yeast counts: Microscopic (methylene blue staining)		R175.00
	Malo-lactic fermentation status (paper chromatography)		R95.00
	Microscopic evaluation		R45.00
	Yeast Handling fee		R625.00
	Yeast Identification (ID 32C)		R800.00
	Mass Loss (1-10 Fermentations)		R4,250.00
Chemical Spray Wines		R4,140.00	

Cellar Services

Small-scale wine making (20 litres)		Price on request
Grape Ripeness Analysis		Price on request

Prices valid from 1 April 2020 to 31 March 2021

Total cost:

Signature of Customer: _____

Date: _____

- Please note - No results will be sent out before proof of payment is received.

Prices include 15% VAT

For office use:

Sample received by: _____

Signature: _____

NARPSU technician (If applicable): _____

Signature: _____

DELIVERY ADDRESS AND CONTACT PERSON

<p>S 33° 54' 54.338" E 18° 51' 36.983"</p> <p>ARC Infruitec-Nietvoorbij, Nietvoorbij Campus, Adam Tas Road/R44, Stellenbosch, 7600</p>	Fungal Pathogens	Abraham Vermeulen - vermeulena@arc.agric.za ; 021 809 3161 Bongiwe Sokwaliwa - sokwaliwab@arc.agric.za ; 021 809 3462
	Bacterial pathogens	Louise Smit - smitt@arc.agric.za ; 021 809 3484
	Bud fertility	Estelle Rhode - rhodee@arc.agric.za ; 021 809 3033
	AGRI-Food Analytic Laboratory	Valmary van Breda - vbreda@arc.agric.za; 021 809 3039 or 021 809 3019
	Soil Quality / Fertility	Isabella van Huyssteen - vhuyssteeni@arc.agric.za; 021 809 3153
	Microbial Analysis	Valmary van Breda - vbreda@arc.agric.za; 021 809 3039 or 021 809 3019
	Cellar Services	Jeremy Boonzaaier - boonzaierj@arc.agric.za; 021 809 3066

<p>S 33° 55' 26.797" E 18° 52' 20.816"</p> <p>ARC Infruitec-Nietvoorbij, Infruitec Northern Campus, Lelie Street, Stellenbosch, 7600</p>	Nematodes	Dr Rinus Knoetze - knoetzer@arc.agric.za ; 021 809 3461
	Insect Identification & Budmite analysis	Muriel Knipe - knipem@arc.agric.za ; 021 809 3463 Dr Elleunorah Allsopp - allsoppe@arc.agric.za ; 021 809 3007
	Mealybug Trap Counts	Levocia Williams - williamsl@arc.agric.za ; 021 809 3425
	DNA Analysis (fingerprinting of plants)	Sieyaam Safodien- safodiens@arc.agric.za; 021 809 3481
	Bacterial and phytoplasma pathogen identification	Dr Yolanda Petersen - peterseny@arc.agric.za; 021 809 3479 Wendy Langenhoven - langenhovenw@arc.agric.za; 021 809 3488

<p>National Agricultural Proteomics Research & Services Unit (NAPRSU), Department of Biotechnology, University of Western Cape, Robert Sobukwe Road Bellville 7535</p>	Proteomic Services	<p>Gadija Mohamed - mohamedg@arc.agric.za ; 021 959 2066 Prof Ndimba - ndimbab@arc.agric.za; 021 809 3000</p>
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