

HORTUS

Analytical Solutions

Providing reliable and timely agricultural analysis
to help you improve your farm's profitability.

Looking to submit more than
one sample? Make sure that
you secure your discount at
sample submission!



Service Guide & Price List

Prices valid from
Friday 1st March 2024

Version 1

Soil Testing

SOIL ANALYSIS

Nutrient	Soil 1	Soil 2	Soil 3	Soil 4	Sugar Soil 1	Sugar Soil 2
Nitrate-N	✓	✓	✓	✓		✓
Phosphorus (Colwell)	✓	✓	✓	✓	✓	✓
Phosphorus (BSES)			✓	✓	✓	✓
Exchangeable Cations (Ca, Mg, Na, K)	✓	✓	✓	✓	✓	✓
Sulphate-S (MCP)		✓	✓	✓	✓	✓
pH (1:5 water)	✓	✓	✓	✓	✓	✓
EC (1:5 water)	✓	✓	✓	✓	✓	✓
Chloride	✓	✓	✓	✓		✓
Phosphorus Buffer Index (PBI)		✓	✓	✓	✓	✓
Organic Carbon (W&B)		✓	✓	✓	✓	✓
Organic Matter		✓	✓	✓	✓	✓
Cu, Fe, Mn, Zn (DTPA)		✓	✓	✓	✓	✓
Boron (hot CaCl ₂)		✓	✓	✓		
Ammonium-N			✓	✓		✓
Aluminium (if pH is < 5.5)			✓	✓		
Silicon (BSES + CaCl ₂)			✓	✓	✓	✓
Potassium (Nitric)					✓	✓
Total: S, P, K, Ca, Mg, Cu, Zn, Mn, Fe, B, Na, Mo, Co, Se				✓		
Calculations: Ca Cat %, K Cat %, Mg Cat %, ESP, CEC	✓	✓	✓	✓	✓	✓
Optimal Levels and Traffic Light Charts on Report	✓	✓	✓	✓	✓	✓
Price (excl. GST)	71.59	118.37	166.09	213.82	125.04	147.96
Price (incl. GST)	78.75	130.60	182.70	235.20	137.54	162.76
Minimum sample volume required	500g	500g	500g	500g	500g	500g

Please go to our sampling guide: www.novumlifesciences.com.au/hortus-analytical/soil-testing/soil-sampling-quick-guide/ for full details on collecting samples.

Soil Testing

ADDITIONAL SINGLE ELEMENT (ASE) TESTS & TEST PACKAGES

Nutrient	Method Code	Sample Volume (Additional to 500g)	Price excl. GST	Price incl. GST
Soil Preparation fee for ASE samples only	N/A	N/A	19.09	21.00
Exchangeable Aluminium (KCl)	15G1	100g	16.71	18.38
pH (1:5 water)	4A1	100g	16.71	18.38
Electrical Conductivity (1:5 water)	3A1	100g	16.71	18.38
Phosphorus (BSES)	9G2	100g	16.71	18.38
Phosphorus (Colwell)	9B1	100g	16.71	18.38
Total Nitrogen (Combustion)	7A5	100g	40.01	44.01
Exchangeable Cations (Ca, Mg, Na, K)	15D3	200g	47.25	51.98
Organic Carbon (W&B)	6A1	100g	40.01	44.01
Micros: Cu, Fe, Mn, Zn (DTPA)	12A1	200g	47.25	51.98
N1: Nematode Count	Whitehead tray	500g	210.00	231.00
Solvita Respiration Test (Microbial Population Indicator)	SOL	200g	57.28	63.01
pH, E.C., NO ₃ -N & Cl	4A1, 3A1, 15D3, 5A1	200g	47.25	51.98
Soil CMP: Compost / Manure / Peat / Potting Mix: pH, EC, Nitrate, OC, Colwell-P, K, Ca, Mg, Na, Cl, OM, CEC (No optimal levels available)	4A1, 3A1, 10B1, 6A1, 9B1, 15D3, 5A1	500g	118.37	130.21
CRS – Chemical Residue Screen (MRL) 67 compounds in total	USEPA	500g	300.68	330.75
HMS – 17 element screen	USEPA	500g	262.73	289.00
Total Elements: S, P, K, Ca, Mg, Cu, Zn, Mn, Fe, B, Na, Mo, Co, Se	17B2	500g	57.28	63.01
SM1: Total bacteria count, Total fungal count, Total yeast count, Total Active Population Count, F:B ratio	Petri film	500g	276.82	304.50

Carbon Testing

SOIL CARBON ANALYSIS

Nutrient	Topsoil CFI 2018 (0-30cm) CAR 1	Subsoil CFI 2018 (30-100cm) CAR 1
Gravel Content	✓	✓
Air-dry mass	✓	✓
Gravimetric water content	✓	✓
Total Organic Carbon	✓	✓
Bulk Density	✓	✓
	Price (excl. GST)	124.09
	Price (incl. GST)	136.50

All sample collection must be performed according to the Australian Government Clean Energy Regulator Guidelines & Carbon Farm Initiative (CFI) Requirements found at:

<https://www.industry.gov.au/policies-and-initiatives/emissions-reduction-fund>
<http://www.cleanenergyregulator.gov.au>

ADDITIONAL TESTING & CHARGES

Nutrient	Price (excl. GST)	Price (inc. GST)
Organic Carbon (W&B)	38.18	42.00
Total Organic Carbon (Combustion)	52.50	57.75
Sample Compositing for Soil Carbon Topsoils (0 – 30cm)	21.00	23.10
Sample Compositing for Soil Carbon Subsoils (30 – 100cm)	42.00	46.20

Bulk discounts are available. Please contact us via email at sales@symbiolabs.com.au for project pricing.

Plant Testing

Includes Preparation and digestion costs

DRY TISSUE ANALYSIS

Nutrient	DT1	DT2
Total Nitrogen	✓	✓
Sulfur, Phosphorus, Potassium, Calcium, Magnesium, Copper, Zinc, Manganese, Iron, Boron, Sodium, Molybdenum	✓	✓
Nitrate-N, Chloride		✓
Optimal Levels and Traffic Light Charts on Reports	✓	✓
	Price (excl. GST)	72.54
	Price (incl. GST)	79.79
		83.54
		91.89

INDIVIDUAL DRY TISSUE TESTS

Nutrient	Price (excl. GST)	Price (incl. GST)
Total Nitrogen	40.09	44.10
Nitrate + Chloride	40.09	44.10
Nitrate-N Only	30.54	33.59
Chloride Only	30.54	33.59
Selenium + Cobalt	52.50	57.75
Molybdenum Only	40.09	44.10
Moisture (as received)	16.71	18.38
Dry Tissue Preparation fee for ASE samples only	19.09	21.00
Dry Tissue Digestion fee for ASE samples only	9.54	10.49
Leaf Washing is an additional charge.	16.71	18.38
No additional prep charges on individual tests if a suite is also selected		

Sample volumes required for dry tissue testing vary according to crop type and test. Please refer to our Sampling Guide for full details:

www.novumlifesciences.com.au/sampling

Plant Testing

SAP ANALYSIS

Nutrient	Sap 2	Sap 4
Sulfur, Phosphorus, Potassium, Calcium, Magnesium, Copper, Zinc, Manganese, Iron, Boron, Sodium	✓	✓
Nitrate	✓	✓
Chloride	✓	✓
Ammonium		✓
pH + Electrical Conductivity + Brix		✓
Optimal levels and Traffic Light Charts on Report	✓	✓
	Price (excl. GST)	110.25
	Price (incl. GST)	121.28
	83.52	
	91.87	

INDIVIDUAL SAP TESTS

Nutrient	Price (excl. GST)	Price (incl. GST)
<small>no additional charges if a suite is selected (Standard Samples Only)</small>		
Brix Only	11.46	12.61
Ammonium Only	28.63	31.49
Molybdenum Only	40.09	44.10
Cobalt + Selenium	52.50	57.75
Silicon Only	30.54	33.59
Sap Preparation fee for ASE samples only (Standard Samples)	19.09	21.00
Additional Sap Preparation Fee for hard to process samples (per 15-minute increments)	14.32	15.75

Please note:

Sample volumes required for sap testing varies according to crop type and testing performed. **Sap 4 tests require 2 – 3 times larger samples than other sap tests.** Please refer to our Sap Sampling Manual for details by crop: www.novumlifesciences.com.au/hortus-analytical/sap-testing/

*** The Sap 4 test is not available for all crops.** Please check the list of excluded crops at www.novumlifesciences.com.au/hortus-analytical/sap-testing/

Irrigation Water Test

Includes Preparation and digestion costs

IRRIGATION WATER ANALYSIS

Nutrient	IW1	Hydro Water (Drip & Drain samples only)
Sulfur, Phosphorus, Potassium, Calcium, Magnesium, Copper, Zinc, Manganese, Iron, Boron, Sodium, Molybdenum	✓	✓
Nitrate-N, Chloride	✓	✓
pH, Electrical Conductivity	✓	✓
Ammonium-N		✓
Calculations: Sodium Adsorption Ratio, Total Dissolved Solids, Hardness	✓	✓
Optimal Levels and Traffic Light Charts on Reports	✓	✓
	Price (excl. GST)	62.04
	Price (incl. GST)	68.24
		84.00
		92.40
Minimum sample volume required	500mL	500mL

INDIVIDUAL WATER TESTS

Nutrient	no additional prep charges if a suite is selected	Price (excl. GST)	Price (incl. GST)
Ammonium-N		21.96	24.16
Nitrate-N + Chloride		40.09	44.10
Nitrate-N Only		30.54	33.59
Chloride Only		30.54	33.59
Selenium + Cobalt		52.50	57.75
Molybdenum Only		40.09	44.10
Water Preparation fee for ASE samples only		19.09	21.00
No additional prep charges on individual tests if a suite is also selected			

Is my water safe to drink?
See our potable water packages on page 11.

Produce Testing

PRODUCE TESTS

Nutrient	Price (excl. GST)	Price (incl. GST)
CRP – Chemical Residue Screen (MRL) – 480 compounds in total	300.93	331.02
HMP - Heavy Metal Test – Lead & Cadmium only	147.96	162.76
F1 – Microbial Test – <i>E.coli</i> and <i>Salmonella</i>	152.72	167.99
F2 – Microbial Test – <i>E.coli</i> , <i>Salmonella</i> & <i>Listeria</i>	219.54	241.49
F3 – Microbial test – <i>E.coli</i> , <i>Salmonella</i> , <i>Listeria</i> , Total Coliforms & Thermotolerant Coliforms	267.28	294.01
F4 – Microbial Test - <i>E.coli</i> , <i>Salmonella</i> , <i>Listeria</i> , Total Coliforms, Thermotolerant Coliforms & Plate Count	305.46	336.01

1kg produce is required for all chemical residue, heavy metal and microbial testing



Livestock Testing

SOIL MINERAL ANALYSIS

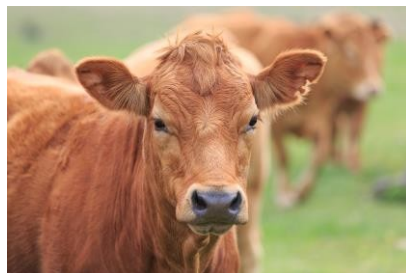
TEST SUITE	DESCRIPTION	PRICE (incl. GST)
Soil1 Soil2 Soil3 Soil 4	A range of mineral analysis that can include: pH, E.C., Ammonium, Nitrate, Phosphorus, PBI, Calcium, Magnesium, Sodium, Potassium, Zinc, Copper, Iron, Manganese, Sulfur, Chloride, Boron, Organic Carbon, Organic Matter, Silicon (BSES + CaCl ₂), Solvita Respiration Test, Total: Selenium, Cobalt. Molybdenum, Sulfur, Phosphorus, Potassium, Calcium, Magnesium, Iron, Boron, Sodium	From: \$78.75 to \$235.20

WATER MINERAL ANALYSIS

TEST SUITE	DESCRIPTION	PRICE (incl. GST)
SW1	pH, E.C., Nitrate-N, Phosphorus, Calcium, Magnesium, Sodium, Potassium, Zinc, Copper, Iron, Manganese, Sulfur, Chloride, Boron, TDS, Molybdenum, Selenium, Cobalt	\$114.44

HAIR/ FAECES MINERAL ANALYSIS

TEST SUITE	DESCRIPTION	PRICE (incl. GST)
FA1– Faeces Minerals	Phosphorus, Calcium, Magnesium, Sodium, Potassium, Zinc, Copper, Iron, Manganese, Sulfur, Boron, Selenium, Cobalt, Molybdenum	\$82.95
H1 – Hair Minerals	Phosphorus, Calcium, Magnesium, Sodium, Potassium, Zinc, Copper, Iron, Manganese, Sulfur, Boron, Selenium, Cobalt, Molybdenum	\$82.95



Potable Water Test

Includes Preparation and digestion costs

POTABLE WATER ANALYSIS

Nutrient	PW1	PW2	
Sulfur, Phosphorus, Potassium, Calcium, Magnesium, Copper, Zinc, Manganese, Iron, Boron, Sodium, Molybdenum	✓	✓	
Nitrate-N, Chloride	✓	✓	
pH, Electrical Conductivity	✓	✓	
Cobalt, Selenium	✓	✓	
Alkalinity		✓	
Langeleir Saturation Index (LSI)		✓	
Calculations: Sodium Adsorption Ratio, Total Dissolved Solids, Hardness	✓	✓	
Optimal Levels and Traffic Light Charts on Reports	✓	✓	
	Price (excl. GST)	99.75	137.46
	Price (incl. GST)	109.72	151.21
Minimum sample volume required	500mL	500mL	

ADDITIONAL & INDIVIDUAL WATER TESTS

Nutrient	no additional charges if a suite is selected	Price (excl. GST)	Price (incl. GST)
Ammonium-N		21.96	24.16
Nitrate-N + Chloride		40.09	44.10
Nitrate-N Only		30.54	33.59
Chloride Only		30.54	33.59
Selenium + Cobalt		52.50	57.75
Molybdenum Only		40.09	44.10
Carbonate, Bicarbonate & Total Alkalinity		57.28	63.01
Water Preparation fee for ASE samples only		19.09	21.00
CRW – Chemical Residue Screen (MRL) 67 compounds in total		300.68	330.75
HMW – Heavy Metal Screen – 17 elements		171.82	189.00

Microbial Testing

MICROBIAL WATER					
ORGANISM	MA1	MA2	MA3	MA4	MA5
E. Coli	✓	✓	✓	✓	
Thermotolerant (faecal) coliforms	✓	✓			
Total Coliforms	✓	✓			
Plate Count	✓	✓		✓	
Salmonella spp.		✓			
Listeria spp.		✓			
Yeast & Mould					✓
Price (ex. GST)	171.82	219.54	90.68	152.72	90.68
Price (incl. GST)	189.00	241.49	99.75	167.99	99.75

MICROBIAL FOOD													
ORGANISM	F1	F2	F3	F4	F10	F11	F12	F13	F14	F15	F16	F17	F18
E. Coli	✓	✓	✓	✓				✓					
Thermotolerant (faecal) Coliforms			✓	✓								✓	
Total Coliforms			✓	✓							✓		
Plate Count				✓					✓				
Salmonella spp.	✓	✓	✓	✓	✓								
Listeria spp.		✓	✓	✓			✓						
Yeast & Mould										✓			
Listeria monocytogenes						✓							
Enterobacteriaceae													✓
Price (ex. GST)	\$152.72	\$219.54	\$267.28	\$305.46	\$90.68	\$171.82	\$95.46	\$95.46	\$61.09	\$78.28	\$95.46	\$72.54	\$72.54
Price (incl. GST)	\$167.99	\$241.49	\$293.96	\$336.01	\$99.75	\$189.00	\$105.41	\$105.41	\$67.20	\$86.11	\$105.01	\$79.79	\$79.79

Other Services

ADDITIONAL SERVICES

ITEM	Price (excl. GST)	Price (incl. GST)
Complete soil fertiliser recommendation - including Total element requirement, product selection and rates (for Soil, QS & Combo samples only)	63.00	69.30
Water interpretation – Comments regarding suitability / water quality	31.50	34.65
Hydroponic recipe – development of a recipe of nutritional inputs for hydroponic systems	157.50	173.25
Sugarcane Recommendation – Based on Six Easy Steps	36.28	39.91
Postage – Flat fee applicable for sending out of sample collection bags and bottles	26.25	28.88

ADDITIONAL SERVICES

ITEM	Price (excl. GST)	Price (incl. GST)
Data Entry Fee – charged on samples which have not been submitted online by the customer via the AgPro website (\$10.49 for first sample in each batch, plus \$3.16 for each additional sample)	9.54	10.49



AgPro is our free online platform for sample submissions and reporting. You can link your account and access your farm's historical results from Hortus Analytical.
Visit: <https://au.agpro.technology> to register for free today.

Do you need soil or plant tissue sampling bags or water sampling bottles?

Please contact our office

sales@symbiolabs.com.au

to have them sent out or drop into 110 Enterprise Street, Svensson Heights QLD 4670.

Did you know? Microbial tests must be submitted in a sterile container to ensure an accurate result.

Sample Submission

1. Submit and (optionally) pay for your sample online via AgPro.
Go to <https://au.agpro.technology> to register a free account, then Submit A New Sample to enter the sample details.

Samples that are received without an AgPro submission will attract a Data Entry Fee (\$10.49 for first sample in batch, then \$3.16 for additional samples)

2. Ensure your sample has been collected in accordance with the sample requirements including containing the correct weight or volume of sample materials.
3. Package your sample according to the sampling guidelines. ALL samples must have the ARN reference number written clearly on them.
4. Microbial testing samples must be sent within 24 hours of collection and packaged to ensure temperature control. Send sensitive samples at the start of the week to avoid delays at postal or courier sorting facilities.
5. Send samples via

Australia Post:

Locked Bag 3901
Bundaberg, QLD 4670

Courier: * PLEASE NOTE NEW ADDRESS *

110 Enterprise Steet
Svensson Heights, QLD 4670

Samples can also be dropped in our contactless submission box at:

*** PLEASE NOTE NEW ADDRESS ***

110 Enterprise Street
Svensson Heights QLD 4670

Please note: Samples which do not meet our sampling requirements, or which are received in poor condition or inappropriately packaged, may cause delays in testing or may not be acceptable for testing. While we do everything, we can to ensure accurate and timely results, we highly recommend checking our Sampling Guides to ensure the best chance of success with your samples.

www.novumlifesciences.com.au