

Plant Analysis Sampling Kit

Version 2015

PRICES VALID TILL 31/12/15

Analysis by APAL

APAL Agricultural Laboratory



Recommendations By:
**Hi-Tech Ag Solutions
Pty Ltd**

Hi-Tech Ag Solutions Pty Ltd
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BUNBURY WA 6230
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APAL Test Description:

APAL Plant Analysis

Nitrogen, Nitrate, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Sulfur, Copper, Boron, Iron, Manganese, Zinc, Aluminium, Chloride, Cobalt, Molybdenum

Feed Test

*Testing sub-contracted

DM, Moisture, DDM, DOMD, ME, CP, NDF, ADF, WSC, Ash, Fat/Oil (if applicable) Crude Fibre (CF), Total Starch (TS), bulk density – Grains only

Feed Test Mineral

N, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Cl, Co, Mo

Grain Mineral

N, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Cl, Co, Mo, Al

CHECK LIST

Before posting please ensure that:

- ✓ **Payment Advice** sheet has been completed and sent to Hi-Tech Ag (envelope provided)
- ✓ The **Plant Analysis Submission Form** is filled in for each soil sample including your contact details.
Postcode is essential for Quarantine Regulations
- ✓ All sample details are clearly identified on the plant tissue paper bags using permanent markers or biro.
- ✓ The plant tissue sample bags are folded closed
DO NOT staple or tape close the bags
- ✓ The **Plant Analysis Submission Form** is completed, and enclosed with samples and sent to APAL –

**APAL
PO BOX 327
MAGILL SA 5072**

**To ensure turn around time of tissue samples
we recommend the samples be sent via
Express Post
(Australia post, 2-3 business days)**

Correct Sampling is imperative to ensure accurate analysis and interpretation. Precise Nutrient Management can only occur with a quality representative sample.

Sample the correct part of the plant at the correct growth stage
Always wear gloves to avoid contamination

Regular tests build better profile

Things to avoid:

- Avoid spoiled, diseased, insect damaged, senescing or dead plant tissue
- Avoid unusual areas in the paddock which can include poorly drained soils, sheep camps, headlands etc. (as per soil sampling guidelines)
- Avoid areas of crops/pastures in the immediate vicinity of trees
- Don't sample plants under moisture stress and avoid waterlogging
- Avoid plants growing in dung or urine patches
- Avoid sampling soon after soil or foliar fertiliser application
- Avoid contamination from dust, soil, sprays, fertilisers and your hands (Always wear gloves to avoid contamination)
- Be consistent in obtaining your representative sample, sample plants of similar vigour, variety, size and age
- Sample early in the week; if storing samples over the weekend, dry or refrigerate
- Avoid plastic bags; use Apal's paper bags. If you require bags please contact us

Taking the sample

1. Review your required tests from APALs price list/service guide. If guidance is required consult APAL or your local advisor/agronomist
2. Determine an appropriate sampling plan
 - Ensuring a representative sample is obtained
 - Avoid unusual areas listed above
 - When trouble shooting take samples from good and poor growth areas to compare between the two
3. Ensure you are wearing gloves to avoid contamination. Avoid touching fence posts or anything that can cause contamination between samples. Use stainless steel cutting implements
4. Ensure the correct part of the plant is sampled. See back of page for summary or for more detailed information refer to plant sampling instructions, www.apal.com.au
5. Collect the desired amount of leaves or petioles (generally aim to 1/2 to 2/3 fill Apal's plant tissue bags)

Sending the Sample to the lab

1. Ensure you have adequate sample
2. Ensure you have the correct submission form and the details are filled out correctly with **Post code**, test code, sample name, Crop and growth stage. If any extra tests are required please mark with a cross or note the code in other tests.

Deliver to:

APAL Agricultural Laboratory
PO Box 327 Magill
Adelaide, South Australia 5072

For any further information please contact APAL on 08 8332 0199 or info@apal.com.au

Orchards / Tree Crops / Vegetable Crops:

Select the most recent fully developed leaf
Usually 3rd or 4th from the growing tip.



Grape Vines:

(Please separate leaf blades from petioles before sending)

Leaf Blade - sample 20-30 most recently mature leaf blades from each representative area.

(remove petiole immediately after sampling blade).

Leaf Petiole - at flowering collect 40-50 petioles from leaves opposite the basal bunch from each representative area
(remove blades from petioles before sending).



Olives:

Select fully expanded mid-shoot leaves from new season growth.
Collect 4 leaves per tree from 25 trees of a single cultivar.

Potatoes:

Select the petiole (or petiole & blade) of the 5th leaf from the growing terminal.

*Always include growth stage information – ie. Tuber size – length of the longest tuber.

Cereals:

Take the whole top of the plant when young or collect 40 to 50 youngest mature leaves post tillering.
Do not take seed head if it has emerged.



Lupins / Beans / Canola:

Collect 100 of the youngest mature leaves.

Deciduous Fruits:

In mid-summer collect 50 leaves from a mid-shoot position.

Cotton: Sample prior to or at first bloom or when the first squares appear.

Youngest fully matured leaves on the main stem. ~ 50-70 leaves



More crop information and detail is available in Apal's plant sampling instructions. www.apal.com.au



Plant Analysis Submission Form



489 The Parade, PO Box 327, Magill SA 5072

Telephone 08 8332 0199 Fax 08 8361 2715 Email info@apal.com.au www.apal.com.au

POST CODE: **QUARANTINE REGULATION: SAMPLES WILL NOT BE PROCESSED WITHOUT**



Agent: Hi-Tech Ag Solutions
Contact Name:
Purchase Order:
Address:
Phone: W
Email:
Grower Name:

Select Reporting Option ☐ Excel Data

Test Options (Add **TEST CODE** and extras on next sample submission page)

Test Code

<input type="checkbox"/> PT2	Complete Tissue (GRAPH) Nitrogen, Nitrate, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Sulfur, Copper, Boron, Iron, Manganese, Zinc, Aluminium, Chloride, Cobalt, Molybdenum
<input type="checkbox"/> F1	Feed Test DM, MOISTURE, DOMD, DMD, ME, CP, NDF, ADF, WCS, Ash, Fat/Oil (if applicable)
<input type="checkbox"/> F2	Feed Test Mineral N, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Cl, Co, Mo
<input type="checkbox"/> G1	Grain Mineral N, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Cl, Co, Mo

Total No of Samples submitted

Sampling Date

Office Use Only:

Invoice no:

Cheque: ☐

Account: ☐

Credit card: ☐

Test code	Office Use/Barcode	Sample Name	Crop	Growth Stage
Test code	Office Use/Barcode	Sample Name	Crop	Growth Stage
Test code	Office Use/Barcode	Sample Name	Crop	Growth Stage
Test code	Office Use/Barcode	Sample Name	Crop	Growth Stage
Test code	Office Use/Barcode	Sample Name	Crop	Growth Stage
Test code	Office Use/Barcode	Sample Name	Crop	Growth Stage



PAYMENT ADVICE

TRADING NAME: NAME:

POSTAL ADDRESS: POST CODE

TELEPHONE/MOBILE: EMAIL:

Note: Allow 14 days for soil samples and 3-4 days for plant tissue to be processed upon APAL receiving samples.

(PRICES VALID TO 31/12/2015)

TEST CODE	TEST OPTIONS	PRICE/ SAMPLE (INC GST)	NO. SAMPLES SUBMITTED	TOTAL COST \$
HT1	APAL PREMIUM COMPLETE SOIL TEST	\$167.20		
Extra	+ Molybdenum	\$13.20		
Extra	+ Cobalt	\$13.20		
Extra	+ DGT Phosphorous	\$19.80		
DS5	Complete Sub Soil- pH, EC, Cl & B	\$69.85		
	Micro Wise Biological Analysis Test- CIAAAF report of analysis	\$319.00		
PT2	APAL COMPLETE PLANT TISSUE ANALYSIS	\$75.90		
F1	Feed Test * Testing sub-contracted to Live stock logic	\$126.50		
F2	Feed Test Mineral	\$61.88		
G1	Grain Mineral	\$75.90		
HM1	Heavy Metal Test- MGT report of analysis	\$165.00		
PR1	Pesticide Residues OC & OP Test- MGT report analysis	\$198.00		
LIME	Lime/ Dolomite- APAL report of analysis	\$110.00		
GYP	Gypsum- APAL report of analysis	\$96.25		
W1	Water Analysis- Irrigation and Livestock	\$103.13		
C1	Compost- APAL report of analysis	\$110.00		
	TOTAL PAYMENT ENCLOSED			\$

PLEASE ENSURE THIS PAYMENT ADVICE IS COMPLETED & RETURNED TO HI-TECH AG SOLUTIONS (Envelope provided)

AN ORIGINAL TAX INVOICE AND RECIEPT OF PAYMENT WILL BE MADE

<p>PLEASE MAKE CHEQUES PAYABLE TO: HI-TECH AG SOLUTIONS PTY LTD</p> <p>Credit Card Payments</p> <p>Card type: Bankcard <input type="checkbox"/> Mastercard <input type="checkbox"/> Visa <input type="checkbox"/> (please tick)</p> <p>Name on Card: Amount: \$</p> <p>Card Number: _____ Expiry:/...../.....</p> <p>Signature: Date:/...../.....</p>	<p>EFT: Banking details</p> <p>Bank: Bank West</p> <p>BSB: 306-072</p> <p>Account #: 045 3195</p> <p>Reference: Please add your Trading Name</p>
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Innovation, Performance, Reliability

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