Crop
Plant
Pasture
OR
Feed
Sampling Kit

Plant Analysis
by APAL

Australian Perry Agricultural Laboratory

Recommendations
by

Ferti-Tech Australia Pty Ltd

Independent Advice

This kit can be used to assess a problem or for monitoring progress in a crop, pasture or conserved fodder.

This kit includes
sampling instructions,
3 paper sample bags,
1 plastic hand glove,
1 pre-paid envelope.

FERTI–TECH
Australia

ABN 23 107 754 110

This kit is designed for

ALL CROP and PASTURE TYPES

LEGUMES, SILAGE, GRAIN and HAY

APAL Plant Analysis
Nitrogen, Nitrates, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Sulphur, Copper, Boron, Iron, Manganese, Zinc, Chloride, Molybdenum & Cobalt

Extra Analysis Available
Selenium.

Feed Analysis
Dry Matter, Crude Protein, Acid Detergent Fibre, Neutral Detergent Fibre, Metabolisable Energy & Digestibility, Ash and Fat

FERTI-TECH AUSTRALIA PTY LTD
PO BOX 5086
BUNBURY DC WA 6230

Tel: 08 9725 6877
Free call: 1300 885 474
Fax: 08 9725 6899
Email: info@fertitech.com

Kit Released 1st January 2012

Full range of tests available through Ferti-Tech Australia Pty Ltd

	Test Options: Prices valid until 31/12/12	Price/Sample (excl GST)	Price/Sample (incl GST)
SOIL TESTS	**Premium Soil Test *Full Report* –** TEC, OM, pH, N, S, P (Olsen/Bray), P recovery, Ca, Mg, K, Na, EC, B, Fe, Mn, Cu, Zn, Ca:Mg ratio, cation/base saturation %, all expressed in kg or lt /ha to allow easy calculation of fertiliser needed with colour graph report plus a Ferti-Tech report. **Full Independent Graph & Ferti-Tech Full Recommendation**	$130.00	$143.00
	+ Chlorides as additional test to Premium Test	$10.00	$11.00
	+ Molybdenum as additional test to Premium Test	$15.00	$16.50
	+ Cobalt as additional test to Premium Test	$15.00	$16.50
	+ Aluminium as additional test to Premium Test	$15.00	$16.50
	+ Nitrogen No_3 and NH_3 as additional test to Premium Test	$15.00	$16.50
	Garden Soil Test - *Full Report* – same as Soil Test above + Chloride and more detailed recommendations	$170.00	$187.00
	Subsoil Test – pH, EC, Ci & B	$40.00	$44.00
	Soil Biological Activity Test – *(Analysis by CIAF)* provides an excellent indicator of soil health by calculating soil microbial activity based on Co_2 evolution	$60.00	$66.00
	Reams Test for Ca, Mg, K, Na & P – *Analysis & Data only* as standalone test without interpretation	$50.00	$55.00
	Reams Test – *In Addition to Premium Soil Test*	$40.00	$44.00
PLANT	**Plant Tissue -** N, N03, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Al, C, Mo, Co in a colour graph and Ferti-Tech report. **Full Report**	$100.00	$110.00
	Fodder & Grain MINERAL – (N,P,K,Ca,Mg,Na,S,Cu,B,Fe,Mn,Zn,Cl,Mo,Co) **APAL report of Analysis**	$65.00	$71.50
	Pasture, Fodder & Grain FEED TEST –(DM, DMD, ME, CP, NDF, ADF, Ash Fat) **Analysis, Data & APAL graph report**	$85.00	$93.50
	Dairy one FEED TEST - –(DM, DMD, ME, CP, NDF, ADF, Ash Fat) plus additional feed indices and major minerals **Analysis, Data & APAL graph report**	$90.00	$99.00
	Selenium – on any sample	$65.00	$71.50
	Plant Sap Test – Analysis & Data (No interpretation) – NO_3, P, K, S, Ca, Mg, Na, Al, Fe, Mn, Cu, Zn, B, Co, Mo + NH_4, Cl, pH, EC	$70.00	$77.00
OTHER TESTS	**Manure/Compost Commercial Test – *Analysis & Data* –** Total Kjeldalh Nitrogen, pH, Salinity,Ec, Boron, Calcium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Sulpher, Zinc, Molybdenum, Carbon/Nitrogen Ratio, Organic Matter and Total Carbon (from Organic Matter), Chloride & Moisture Content. **Tested to Australian Compost Standards (AS4454)**	$215.00	$236.50
	Heavy Metals Test – Analysis & *Data* – Antimony, Arsenic, Barium, Beryllium, B, Cadmium, Chromium, Co, C, Lead, Mn, Mercury, Mo, Ni, Selenium, Tin, Vanadium, Zinc **1 sample** **2+ samples**	$290.00 each $170.00 each	$319.00 each $187.00 each
	Pesticide Residues OC & OP Test – *Analysis & Data* – a test for 20 individual organo-chlorine (OC) and 11 individual organo-phosphorous (OP) pesticides. **1 sample** **2 + samples**	$290.00 each $190.00 each	$319.00 each $209.00 each
	Lime / Dolomite Test (as product) **- *APAL Report & Analysis* –** Ca, CaO, CaCO3, Mg, MgO, MgCO3, S, fineness of grind, TNV, ENV	$95.00	$104.50
	Gypsum Test (as product) **- *APAL Report & Analysis* -** Ca, Mg, S, fineness of grind, TNV, ENV.	$95.00	$104.50
	Water – *APAL Report & Analysis* – pH, EC, SAR, Al, Cu, Fe, Zn, B, Ca, K, Mg, Mn, Mo, Na, P, S, Cl, NO3, TDS	$85.00	$91.50
	EPA (Winery Waste Water Disposal) - ***Analysis & Data*** – ECse (sat paste extract), pH (1:5 soil: water), Organic Carbon % (Walkley Black)	$95.00	$104.50
	Soil Probe (plus $20 postage & handling) – engineered stainless steel 15cm tapered tube mounted on painted iron handle to allow manual step-on core sampling method + **Postage**	$95.00	$104.50 $20.00

SAMPLING INSTRUCTIONS

Do not fertilise from pasture tissue results, unless confirmed by soil analysis.
Always consider soil sampling as a first priority.

Avoid contamination! Wash your hands before sampling.
Use the disposable gloves provided.

Pastures

- Take a general sample as a grazing animal would.
- At random, cut a sample to ground level, avoiding roots and dirt. Scissors may be needed.
- Avoid dirty leaves, as these will contaminate samples.
- Avoid taking pasture samples close to cowsheds, fences, roads, tree lines or dung and urine patches.
- Before placing the pasture sample in the paper bag, ensure surplus moisture is removed by air drying.

Please note: Should you require an **APAL Feed Value Analysis** *in addition* to the **APAL Pasture Mineral Analysis**, please fill the paper bag full, as much as possible with sample.

Ideally take a pasture sample from the same area where soil has been sampled.

All properties should have at least three pasture samples taken per year, autumn, winter and late spring.

Feed

Hay:

- Take a representative sample by using a coring device.
- Take the core samples from the side into the centre of 5 to 10 round or square bales, at a depth of 20 – 30cm.
- Place these cores into the plastic bag provided.

Silage:

- A representative sample can be taken by hand, selecting from at least 10 different areas of the stack.
- Avoid areas that have been exposed to the air, eg. sides and top of stack.
- Avoid any open feeding faces that have been exposed to the air for more than 12 hours.
- Place the handfuls of silage into a clean container and mix thoroughly.
- Place a sample of this material into the larger plastic bag provided.
- Freeze the sample to prevent oxidation if it can not be forwarded to lab immediately.
- Approx. 300 grams is required.

Grain:

- A representative sample can be taken by hand.
- Take a handful from 5 to 10 different bags or locations in the silo of that same grain.
- Mix these handfuls of grain thoroughly in a clean container and pour **300 grams only** of this mixed sample into the larger plastic bag provided.

Please remember: Total weight of envelope, must not exceed 500 grams. Thank you.

SAMPLING INSTRUCTIONS

Do not fertilise from leaf tissue results, unless confirmed by soil analysis.
Always consider soil sampling as a first priority.

- Accurate sampling is critical for reliable results -

Avoid contamination! Wash your hands before sampling.
Use the disposable gloves provided.

Avoid dirty leaves, as these will contaminate samples.

- **Orchards / Tree Crops / Vegetable Crops:**
  Select the most recent fully developed leaf - usually 3rd or 4th from the growing tip.

- **Grape Vines**:
  Leaf - sample most recent mature leaf (petiole and blade).
  Petiole - at flowering collect a petiole from a basal node opposite a bunch.
  20–30 leaves from one representative area will fit in one paper bag supplied.

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

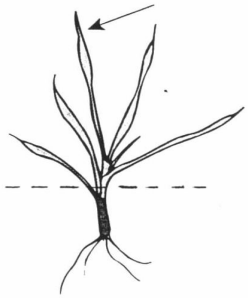
- **Potatoes:**
  Select the petiole (or petiole & blade) of the 5th leaf from the growing terminal.
  *Always include growth stage information – ie. Tuber size – length of the longest tuber.

- **Cereals:**
  Take the whole top of the plant when young or collect 40 to 50 leaves. 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.

Grape Vines



Cereals

Deciduous Fruits

IMPORTANT INFORMATION

If leaves are wet, collect in a plastic bag and transfer to paper bag supplied for postage after drying off moisture.

FERTI-TECH AUSTRALIA PTY LTD
PO BOX 5086, BUNBURY WA DC 6230
Tel 08 97256877 Fax 08 97256899
Website: www.fertitech.com
Email info@fertitech.com

PLANT / FODDER TEST REQUEST FORM

Agent / Consultant:

P/O No: _____

Business Name: _____

Contact: _____

Address: _____

_____

Phone: _____ Fax: _____

Mobile: _____

Email: _____

Test Options

Please record item codes (A, B, C, D) at the bottom of page under test option for each sample.

(A) Plant Tissue for all crops & pasture
(N, No3, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Al, Cl, Co & Mo)

- All Crops / Plants
- Whole Fruit / Fruitlet
- Orchards
- Vegetables
- Oil Crops - (Canola / Olives)
- Vines
- All Pastures
- Lucerne

(B) Pasture, Fodder & Grain <u>FEED TEST</u>
(DM, DDM, ME, CP, NDF, ADF, Ash, Fat)

(C) Fodder & Grain <u>MINERAL</u>
(N, P, K, Ca, Mg, Na, S, Cu, B, Fe, Mn, Zn, Cl, Co, Mo)

(D) Dairy one FEED TEST
(DM, DMD, ME, CP, NDF, ADF, Ash Fat) Plus additional feed indices and major minerals

(E) Selenium- *on any sample*

Sample ID: eg: Paddock Name	**Type - Crop / Feed:** eg: Oats, Clover, Tomato, Hay	**Growth Stage:** eg: Vegetative, pre-flowering	**Livestock Grazing** eg: Sheep, Cattle	**Test option** eg: A, B,C
1				
2				
3				
4				
5				
6				
7				
8				

Observations / History / Comments:
For a full Ferti-Tech report to be completed we require further information on :eg fertilisers applied, age of livestock, symptoms (leaf tip yellowing, stunted growth)

_____

_____

_____

_____

_____

Office Use Only: Cheque # $ Invoice # Report sent / / Sent by:

FERTI-TECH Australia

TAX INVOICE

ABN: 23 107 754 110

Please send your payment and this payment advice to FERTI-TECH AUSTRALIA

CONSULTANT: _____

PLANT & FEED TEST PAYMENT ADVICE

NAME: _____ **DATE:** _____/_____/_____

ADDRESS: _____ **POSTCODE:** _____

PHONE No: _____ **Fax No:** _____ **Email:** _____

Test Options: *(please refer to front page)*	Price/Sample (excl GST)	Price/Sample (incl GST)	No. Samples submitted	TOTAL COST $
Plant Tissue – Option A – Full Report	*$100.00*	***$110.00***		
Pasture, Fodder & Grain FEED – Analysis, Data & APAL graph Report	*$85.00*	***$93.50***		
Fodder & Grain MINERAL – APAL report of Analysis	*$65.00*	***$71.50***		
Dairy one FEED TEST – Analysis, Data & APAL Graph Report	*$90.00*	***$99.00***		
Selenium on any sample –	*$65.00*	***$71.50***		
Postage & Handling				*$10.00*
TOTAL PAYMENT ENCLOSED			***$***	

Please remember:

- Send your plant samples and customer information sheet to the laboratory in the provided prepaid envelope.

PAYMENT OPTIONS

1. ***CHEQUE –*** Make payable to **"Ferti-Tech Australia"** and enclose with this sheet in our self-addressed envelope.

2. ***DIRECT DEPOSIT –*** Make a direct deposit to our account and put your name/invoice # as a reference

   BSB: 016-560 (ANZ Bunbury WA)
   ACCT: 4962 06706
   NAME: Ferti-Tech Australia Pty Ltd

3. ***CREDIT CARD***
   ***NB: 1.5% surcharge applies to credit card payments**

   MasterCard ○ VISA ○

   CARD NUMBER: _____

   CARDHOLDER NAME: _____

   EXPIRY DATE: ___ / ___ AMOUNT: _____

   SIGNATURE: _____

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