

Name

ANALYSIS REQUEST

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Quote No	Submitter (if different)																			
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Charge To Client Primary Contact (Company)								Results To  Reports will be emailed to Primary Contact by default.  Additional Reports will be sent as specified below.  Email Primary Contact  Email Client  Email Other												
SOIL SAMPLE DETAILS			ended Prof	<b>files</b> are c	outlined L	pelow,	and on the reverse of this Please indicate your requested tests with a ✓													
500g Minimum Required	Sample Depth	sheet.  Dairy  Drystoc  OR Cro	k (DS)	Soil	Rec.	Basic Soil	Sulphur Profile	Anion Storage Capacity	Resin P	Organic	Organic	Pot Avail Nitrogen	HWEON/ PMN	Boron	Trace	Mehlich 3	Soil Health Profile	1	See Ove Page	r Lab
Sample Identification	(mm)	(Spec		Code*	Profile	BS	s	ASC	RP	OrgS	P ON	AN	HWEO Nir	В	EDTA	М3	SHealth	P p	Other	#
•					l Dur file						<u> </u>		<u> </u>							
*Soil Code: Ash (A), Pumice (Pu), Peat (Pt), Sedimentary (Sed) – applies for pasture only, Gla	isshouse (GH		Recommer (see Crop		i Fiolile.										Profile + F (Basic S				l + Pot Availa	ble N)
PLANT SAMPLE DETAIL	.S	Recor	mmended l	Profiles a	re outlin	ed bel	ow, an	d on t	he rev	erse o	f this s	heet.			Pleas	se indic	ate you	r requeste	d tests with	a ✔
100g Minimum Required – Leaf 500g Minimum Required - Pasture	Dairv	( <b>D</b> ), Drysto	ock (DS)					, sic	ŧ	Molybdenum	Selenium	lodine	Chloride	Nitrate	Mixed Pasture Profile	Clover Only Profile	Combined Grape Profile	Combined Potato Profile	See Over	
Sample Identification		Crop Type/ (Specify)	Variety		Plant Pa vth Stag		Rec. Profile	e B		§ 8 IO C(		<u>B</u>		≅ NO3	∯ a a a b MPast	Clov	S & E CGP	8 8 분 CPotP	Other	Lab #
								-												
								+			+									
Recommended Plant Profiles: (see Crop Guides)	Kiwifruit Mixed P	: (Basic Plant <b>asture</b> (Basic	+ CINir), <b>Avo</b> c Plant, Mo, C	<b>cado</b> (Basi o, Se + CIN	c Plant + ( lir + Crude	CINir), <b>E</b> Proteir	Brassica n + ME),	a (Basi Clove	Plant r (Basi	+ Molyb c Plant	denum) + Molyb	Lucer denum)	ne (Basi	c Plant	+ Molybde	enum),				
FEED SAMPLE DETAILS	;	Recor	mmended l	Profiles a	re outlin	ed bel	ow.								Pleas	se indic	ate you	r requeste	d tests with	a 🗸
500g-1kg Minimum Required - Feed 1kg Minimum Required - Silage/Baleag	9			Some	ala Sau	roo	Weeks in stack/bales				Dry						Co	mpound Feed	Other	
Sample Identification		Crop Gro	Sample Source e.g. paddock, trucks, stack, bales			(silage/baleage <sup>№</sup>		Dry Matter <b>DM</b>	Matter, CP, ME	Feed		ed	Silage	Extended Silage ExtSil		dFeed Wet Chem	Other e.g. VFA, NO3-N	Lab#		
		,																		
Recommended Energy, Digestibilities Feed Profiles: Silage/Baleage Silage (ph	gestibility), <b>Ex</b> y) - select beto I, Dry Matter, (	<b>tFed</b> (Feed p veen NIR and Crude Protein	atter, Crude Prorofile plus ma alysis <b>OR</b> Wet n, Crude Fat, A	jor & trace of Chemistry Ash, Soluble	elements i only (Pric	nci CIN e Impac	ir), <b>Cpdl</b> t).	Feed (	Dry Mat	ter, Cru	de Prote	in, Crud	de Fat, A	sh, Solu	uble Suga	rs, Starc	h, ADF, I	NDF, Metabo	ignin, Metabo lisable Energ	olisable y,
			ce elements ir ease advise la		hazardous	substa	nces no	ssibly	oresent	in [	-						/			,
ADDITIONAL INSTRUCTIONS  NB. Please advise laboratory if hazardous substant samples.  Total Number of NOTE: If more than a constituted by large and force and indicate the constitution of								Chi Request Forms KB 2000 Right Food Page (individual)												
NOTE: If more than one courier bag being sent for one farm, please indic Samples Sent for Job VOTE: If more than one courier bag sent for one farm, please indic 2 of 2 etc on outside of courier bag so that all samples are reported in one									2,	٥	=	=	·		Y samp		s	=	igs (indiv)	/
										Q	ty:		Courier		r 🗆 A	IZ Post				
										Q	ty:		Other							
Hill Labs terms of trade and payment can be samples on this analysis request form impli-				sion of	PLE	ASE	SIGI	<b>V</b> s	ignatu	re								Date		

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# **SAMPLING INSTRUCTIONS**

Interpretation of test data depends on the sample being taken (sampled) in the recommended manner. These notes will help to ensure that this is done. More detailed guides for specific crops are available on our website under **Crop Guides**. Please advise laboratory if hazardous substances might possibly be present in/on samples

#### **Soil:** to determine the nutrient status of soils

- Take samples from sites representative of the greater part of the area.
- Avoid sampling unusual areas such as around hedges, fences, troughs, gates etc.
- 2. Sample to the correct depth: Pasture 7.5cm, Arable land and orchards 15cm, Turf 7.5cm.
- Sample on a grid or zig-zag pattern, taking at least 20 cores. Note: only 500cc (0.5 kg) is required for analysis
- 4. Avoid contamination of samples, e.g. fertiliser. Use clean equipment and plastic sample bags.
- 5. Clearly label sample bags with a permanent marker or ballpoint pen.
- 6. Soils from horticultural, intensive cropping sites and turf areas should be analysed annually, at the same time of year. Arable and pasture paddocks also warrant sampling every year, especially if withholding or reducing fertiliser inputs when more regular data on nutrient depletion is essential.
- 7. Carefully check you have filled in the request form
- 8. Send sample to laboratory as soon after collection as possible.

# **Plant:** for diagnosis of nutrient imbalance

- 1. Collect the sample from plants that are representative of the crop. Avoid sampling from plants adjacent to shelter, headlands or other unusual areas.
- 2. Take approximately 100grams (25-30 leaves for larger plants)
- 3. Take care to avoid contamination of samples, particularly with soil, fertilisers and chemicals.
- 4. Identify the sample bags with permanent marker pen or ballpoint pen.
- For diagnosis of nutritional disorders, sample plants showing signs of abnormality.
- Carefully check that you have filled in the request form, then promptly despatch to the laboratory, or keep chilled overnight if necessary.

Organic Matte

\*OM \*AN SS

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×

×

× ×

Pot Avail. Nitrogen

×

Salts

Soluble 3

ф

4

×

## Feed:

exist.

Soils

Pasture

Forestry

Crop Grown

Arable Crop

Sports Turf

Hort. Tree Crops

Hort. Field Crops

Hort. Protected/Glasshouse

- 1. Collect forage or silage sample representative of the feed source.
- 2. Take approximately 500g-1kg and place in sample bag, seal and identify clearly with permanent marker pen or ballpoint pen.
- Carefully check that you have filled in the request form, then promptly despatch to the laboratory. Send samples to laboratory as soon as possible after collection, or keep chilled overnight if neces Feed quality tests will be analysed using NIRS technology with automatic test notation if statistical prediction outliers exist. Reference method (wet chemistry) tests are available upon request.

Mineralisable

\*HWEONNir/

**PMN** 

×

×

Soil Health Profile

SHealthP

×

×

Boron

В

×

Potentially

## RECOMMENDED TEST SELECTIONS

Soil

Basic

BS s

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× ×

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× ×

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Sulphur Profile

Stora

Anion Sto Capacity

\*ASC

× ×

×

×

×

Resin P

RP

www.hill-labs.co.nz

Hill Labs offers a wide range of tests for soil and plant testing. To assist you with selecting the tests to suit your particular needs, we have supplied the guide below. This shows which tests are strongly recommended, recommended, or applicable for special investigations only. tests marked with \* will be analysed using NIRS with codeswap to wet chemistry if statistical prediction outliers

Organic Soi Profile

\*OrgSP

×

×

Recommendation Legend: Strongly recommended Recommended

For special investigations

Note: Soil and Plant testing will incur sample preparation fee if the basic test is not requested.

Basic Soil Profile: volume weight, pH, Olsen phosphorus, potassium, calcium, magnesium, sodium, C.E.C., base saturation \*Organic Soil Profile: Organic matter, Total N. Potentially Available N

Soil Health Profile: Basic Soil, Sulphur Profile, "Anion Storage Capacity, "Organic Soil Profile, "Hot Water Extractable Carbon

Other soil tests available:

S - sulphate sulphur, \*organic sulphur \*ASC - Anion Storage Capacity

RP – resin phosphorus \*OM – organic matter
\*AN/AMN – potentially available nitrogen (anaerobic mineralisable N)

SS – soluble salts rMg – reserve magnesium B – boron

pH - pH only AL - aluminium

TMo –Total Molybdenum TSe – Total Selenium

TBK - reserve potassium \*TN - total nitrogen \*CN - C:N ratio EDTA – EDTA manganese, zinc, copper, cobalt, iron

TP - total phosphorus \*TS - total sulphur TCd - total Cadmium

M3(mehlich 3) – (P, Ca, Mg, K, Na, Mn, Zn, Cu, Co, Fe, Al, B) \*HWECNir - Hot Water Extractable Carbon

\*HWEONNIir & PMN – Hot Water Extractable Organic Nitrogen for Potentially Mineralisable N

MinN – NO3-N, NH4-N (soils to be chilled before sending)

SoilTexture - %sand, %silt,%clay Earthworm eDNA Profile - (A.caliginosa)

Plants	Basic Plant	Molybdenum	Cobalt	Selenium	lodine	Chloride	Aluminium	Plant Nitrate	
Crop Grown	BP	МО	co	SE	- 1	CINir	AL	NO3	Other
Pasture	×	×	×	×	×		<b>+</b>	<b>+</b>	
Fruit Crop	×					<b>+</b>			
Vegetable Crop	×	×				<b>+</b>		<b>+</b>	
Kiwifruit	×					×			
Arable Crop	×							<b>+</b>	
Flowers/Ornamental Crops	×								

Basic Plant Profile: \*nitrogen, phosphorus, potassium, sulphur, calcium, magnesium, sodium, iron, manganese, zinc, copper, boron, titanium

Mixed Pasture Profile (MPast): Basic Plant, Mo, Co, Se + ClNir + Crude Protein + MF

Clover Only Profile (Clov): Tests carried out on a Clover sample (Basic Plant, Mo). Combined Grape Profile (CGP): Tests are carried out on the Petiole (NO3-N, P, K, Mg, S) and the Blade (N, P, K, S, Mg, Ca, Na, Mn, Zu, Cu, Fe, B, Ti) of the same leaf

Combined Potato Profile (CPotP): Tests are carried out on the Petiole (NO3-N, P, K, Mg) and the Blade (N, P, K, S, Mg, Ca, Na, Mn, Zu, Cu, Fe, B, Ti) of the same leaf

Special plant tests:

MO – molybdenum CO – cobalt SE – selenium I – iodine CINir – chloride AL – aluminium NO3 – nitrate-N NI – nutrient indices

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