

AgVita Analytical Pty Ltd

effective from 1st July 2025

(This list supercedes all previous published copies)



Plant Sap Analysis

CODE	Product	Elements
NU1	3 elements	NO ₃ , P, K only
NU2	7 elements	NO ₃ , P, K, Ca, Mg, Zn, B
NU7	15 elements	NO ₃ , NH ₄ , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl
NU8	19 element*	NO ₃ , NH ₄ , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl + Brix, Si, Al and pH
NU88	Old Leaf v New Leaf*	Differential sap analysis of a paired leaf sample from the same crop. NU-8 analysis on both the old leaf and the new leaf, reported together with data only for old leaf result.
sapN	Total NITROGEN in sap*	Total Nitrogen analysis of sap (Dumas method). Only available as an additional analyte when requesting a NU-8 or NU-88 analysis.

* sample volume dependant - please contact AgVita Analytical for required sample size if unsure.



Plant Tissue (digestion) Analysis

CODE	Product	Elements
PR70	Total N	N only (as total N by Dumas method) or any other single nutrient (eg K, Ca, Zn etc)
PR71	NPK check	N (as total N) - P - K only
PR72	Basic test	N (as total N) - P - K - Ca - Mg - Zn - B
PR73	Complete test	N (as total N) - N-NO ₃ - Cl - P - K - Ca - Mg - Na - S - B - Cu - Zn - Mn - Fe - Al - Mo**
PR79	Additional to above tests	per extra analysis (eg. LOD, Brix) or additional sample preparation.

** Molybdenum by ICP-OES. Please contact AgVita Analytical if unsure if this method is suitable for your crop type



Mehlich Soil Analysis

CODE	Product	Elements
ES21	Soil nutrients	P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Cl
ES22	Soil complete	ES-21 plus pH (H ₂ O & CaCl ₂), TC, TN, C/N, EC, ESI, Cl, CEC _e (including exchangeable acidity Al&H), M3-PSR, lime requirement & O.M. calculation
ES23	Compost	P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, pH, EC, NO ₃ , NH ₄ , Cl, TC, TN, C/N (Please note this analysis is <u>not</u> to Australian Compost Standards AS4454 {2012})
ES25	Soil complete & N-check®	ES-22 plus available NO ₃ & NH ₄
ES30	Soil nutrients & pH, EC	ES-21 plus, pH, EC, M3-PSR, ESI,
ES31	OC *	Organic carbon (W&B wet oxidation) only
ES32	Active Carbon *	Active (or labile) Carbon soil fraction only
ES33	TC/TN/C:N *	Total Carbon, Total Nitrogen, C/N ratio only
ES34	Colwell P *	Soil Colwell P only
ES35	Olsen P *	Soil Olsen P only
ES36	Soil pH	pH in water and calcium chloride (CaCl ₂) plus EC
ES37	Soil pH Plus	pH in H ₂ O and CaCl ₂ plus EC, with P-K-Mg-Ca-B only.
ES38	Salinity check	pH, EC, Na & Cl only

The price shown for test options ES31 to ES35 marked above with an asterisk are for these analytes as stand-alone tests. If combined with other expressSoil or Soil Response test codes, prices are reduced by 50% .



Available Soil Nitrogen

CODE	Product	Elements
NC86	N-check® Plus	Available soil NO ₃ & NH ₄ plus P & K (or 2 other elements of choice)
NC88	N-check®	Available NO ₃ & NH ₄ analysis on fresh soil, reported in kg/Ha



Traditional Soil Analysis

CODE	Product	Elements
SR41	Standard	pH (H ₂ O & CaCl ₂), EC, N-NO ₃ , Cl, Olsen-P <u>or</u> Colwell-P, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), S (MCP), B, Al (KCl), OC.
SR42	Standard + PBI	pH (H ₂ O & CaCl ₂), EC, N-NO ₃ , Cl, Olsen-P <u>or</u> Colwell-P, PBI, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), S (MCP), B, Al (KCl), OC.
SR43	Crop check	pH (H ₂ O & CaCl ₂), EC, Cl, Olsen-P <u>or</u> Colwell-P, macro's (Ca, Mg, K, Na), S (MCP), Al (KCl), OC.
SR44	Complete Crop Check	pH (H ₂ O & CaCl ₂), EC, Cl, Olsen-P <u>or</u> Colwell-P, PBI, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), S (MCP), Al (KCl), OC.
SR45	Basic	pH (H ₂ O & CaCl ₂), EC, Olsen-P <u>or</u> Colwell-P, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), OC.
SR46	Basic Plus	pH (H ₂ O & CaCl ₂), EC, Olsen-P <u>or</u> Colwell-P, PBI, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), OC.
SR47	Complete	pH (H ₂ O & CaCl ₂), EC, N-NO ₃ , Cl, Olsen-P <u>or</u> Colwell-P, PBI, Colwell-K, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), S (KCL-40), B, Al (KCl), OC.
SR48	Monitor	pH (H ₂ O & CaCl ₂), Olsen-P <u>or</u> Colwell-P, Colwell-K, S (KCL-40).
SR49	Premium	pH (H ₂ O & CaCl ₂), EC, N-NO ₃ , N-NH ₄ Cl, Olsen-P <u>or</u> Colwell-P, PBI, Colwell-K, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), S (KCL-40), B, Al (KCl), OC, TN, Total P
SR-SC2	Sugarcane basic (SIX EASY STEPS compliant)	pH (H ₂ O & CaCl ₂), EC, Colwell-P, PBI, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), Zn (HCl), S (MCP), Al (KCl), OC, BSES-P, BSES-Si, Si (CaCl ₂), Nitric-K, soil texture, CECe calc
SR-SC3	Sugarcane complete (SIX EASY STEPS compliant)	pH (H ₂ O & CaCl ₂), EC, Chloride, BpH (lime req), Colwell-P, PBI, Ammonium-N, Nitrate-N, macro's (Ca, Mg, K, Na), micro's (Cu, Zn, Fe, Mn), Zn (HCl), S (MCP), Al (KCl), OC, BSES-P, BSES-Si, Si (CaCl ₂), Nitric-K, soil texture, CECe calc,
SR51	N-P-K	KCl extraction of NO ₃ & NH ₄ , Olsen-P <u>or</u> Colwell-P, Colwell-K <u>or</u> Macro-K
SR53	KCl extractable N	KCl extraction of NO ₃ & NH ₄ (data only)

PLEASE SPECIFY WHICH PHOSPHORUS TEST YOU REQUIRE BY NOTING ON YOUR SAMPLE SUBMISSION LABEL (OUR DEFAULT OPTION IS OLSEN-P)



Water Analysis

CODE	Product	Elements
AQ11	ICP	P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo
AQ12	Salinity	Water pH, EC, Na & Cl only
AQ13	Alkalinity	Water carbonate (CO ₃) & bicarbonate (HCO ₃) only
AQ14	Soil Solution	NO ₃ , NH ₄ , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl
AQ15	Soil Solution plus pH	NO ₃ , NH ₄ , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl plus pH & EC* (*sample volume dependent)
AQ16	Irrigation	NO ₃ , NH ₄ , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl, Al, Si, pH, E.C., TDS, Total Cations, Hardness, SAR, RSC, HCO ₃ , CO ₃
AQ17	pH & EC	Water pH and EC only
AQ18	Hydroponics	NO ₃ , NH ₄ , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl, HCO ₃ , pH, E.C., Hardness, TDS
AQ19	Spray water	NO ₃ , Ca, Na, SO ₄ , Cu, Zn, Mn, Fe, Cl, pH, E.C., TDS, Hardness



Soil Microbial Analysis

CODE	Product	Description
MWSP	MicrobeWise Pro (was MWSS)	Biomasses of 10 key groups of soil microbes and practical management indicators
MAWS	Microbe activity wise	Activity rate of all soil microbes. Ideal in combination with Microbe wise for a complete overview of soil microbial health and activity
NEMW	Nematode wise	Measures the quantity of a numbers of different types of nematodes in your sample.
VWSA	VAM wise (roots annuals)	Mycorrhizal colonisation of plant roots

MISCELLANEOUS TESTS:

TOC	Total Organic Carbon %	Total organic carbon after acid wash and oven dry.
PSA	Particle Size Analysis	Determination of %sand/silt/clay and Australian classification of soil type***
%LOD	Loss on drying	stand-alone measurement of % moisture in soil or plant (wet/dry weights available on request)
P.A.	Precision Ag soil analysis	Please contact AgVita Analytical to discuss pricing for your Precision Ag soil analysis needs. We offer flexible packages with guaranteed turn-around times at competitive prices.
SNAP	Snap-Soil	Same-day analysis. Water soluble macros (mg/l and %cec), pH & EC, Chloride, NOx

***The price shown for test option PSA marked above with an asterisk is for a stand-alone test. If combined with other soil tests above, prices are reduced by 50% .