

# AgVita Analytical Pty Ltd

Products effective from July 1, 2018



## Plant Sap Analysis

CODE	Product	Elements
NU1	3 elements	NO <sub>3</sub> , P, K,
NU2	7 elements	NO <sub>3</sub> , P, K, Ca, Mg, Zn, B
NU7	15 elements	NO <sub>3</sub> , NH <sub>4</sub> , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl
NU9	Additional to above tests	per analysis (eg. Al, Co, Se, Si, Brix) – per element or additional sample preparation. Please specify additional analyte required. Loss on Drying (LOD) also available



## 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) - NO <sub>3</sub> - Cl - P - K - Ca - Mg - Na - S - B - Cu - Zn - Mn - Fe - Al
PR79	Additional to above tests	per extra analysis (eg. LOD, Brix) or additional sample preparation.



## 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 <sub>2</sub> O & CaCl <sub>2</sub> ), TC, TN, C/N, EC, ESI, Cl, CEC <sub>e</sub> (including exchangeable acidity AI&H), M3-PSR, lime requirement & O.M. calculation
ES23	Compost	P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, pH, EC, NO <sub>3</sub> , NH <sub>4</sub> , Cl, TC, TN, C/N (Please note this analysis is <u>not</u> to Australian Compost Standards AS4454 (2012))
ES24	Soil nutrients & N-check®	ES-21 plus available NO <sub>3</sub> & NH <sub>4</sub>
ES25	Soil complete & N-check®	ES-22 plus available NO <sub>3</sub> & NH <sub>4</sub>
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 <sub>2</sub> ) only
ES37	Soil pH Plus	pH in H <sub>2</sub> O and CaCl <sub>2</sub> 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% .



## Soil physical properties

CODE	Product	Description
AGSTAB	WSA%	Water stable aggregate assessment of soil (Cornell methodology)



## Traditional Soil Analysis

CODE	Product	Elements
SR41	Standard	pH (H <sub>2</sub> O & CaCl <sub>2</sub> ), EC, N-NO <sub>3</sub> , 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 <sub>2</sub> O & CaCl <sub>2</sub> ), EC, N-NO <sub>3</sub> , 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 <sub>2</sub> O & CaCl <sub>2</sub> ), 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 <sub>2</sub> O & CaCl <sub>2</sub> ), 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 <sub>2</sub> O & CaCl <sub>2</sub> ), 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 <sub>2</sub> O & CaCl <sub>2</sub> ), 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 <sub>2</sub> O & CaCl <sub>2</sub> ), EC, N-NO <sub>3</sub> , 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 <sub>2</sub> O & CaCl <sub>2</sub> ), Olsen-P <u>or</u> Colwell-P, Colwell-K, S (KCL-40).
SR49	Premium	pH (H <sub>2</sub> O & CaCl <sub>2</sub> ), EC, N-NO <sub>3</sub> , N-NH <sub>4</sub> , 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
SR52	Mineral N (core samples)	KCl extraction of NO <sub>3</sub> & NH <sub>4</sub> in core sample, includes actual bulk density, % moisture (LOD)
SR53	KCl extractable N	KCl extraction of NO <sub>3</sub> & NH <sub>4</sub> (data only)

PLEASE SPECIFY WHICH PHOSPHORUS TEST YOU WOULD LIKE 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 <sub>3</sub> ) & bicarbonate (HCO <sub>3</sub> ) only
AQ14	Soil Solution	NO <sub>3</sub> , NH <sub>4</sub> , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl
AQ15	Soil Solution plus pH	NO <sub>3</sub> , NH <sub>4</sub> , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl plus pH & EC* (*sample volume dependent)
AQ16	Irrigation	NO <sub>3</sub> , NH <sub>4</sub> , 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 <sub>3</sub> , CO <sub>3</sub>
AQ17	pH & EC	Water pH and EC only
AQ18	Hydroponics	NO <sub>3</sub> , NH <sub>4</sub> , P, K, Ca, Mg, Na, S, B, Cu, Zn, Mn, Fe, Mo, Cl, HCO <sub>3</sub> , pH, E.C., Hardness, TDS
AQ19	Spray water	NO <sub>3</sub> , Ca, Na, SO <sub>4</sub> , Cu, Zn, Mn, Fe, Cl, pH, E.C., TDS, Hardness



## Available Soil Nitrogen

CODE	Product	Elements
NC80	Loss on Drying	Moisture content % of soil
NC81	Dried soil nitrate	Water soluble nitrate (N-NO <sub>3</sub> ) content of dried soil
NC86	N-check® Plus	Available soil NO <sub>3</sub> & NH <sub>4</sub> plus P & K (or 2 other elements of choice)
NC88	N-check® NO <sub>3</sub> & NH <sub>4</sub> analysis	0-30 cm or any other or additional depth interval



## Soil Microbial Analysis

CODE	Product	Description
MWSS	Microbe wise (was MWSE)	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 (was NMWS)	Measures the quantity of a numbers of different types of nematodes in your sample.
VWSA	VAM wise (roots annuals)	Mycorrhizal colonisation of plant roots
STWS	Glomalin wise (was GWSE)	Concentration of soil glomalin