

IMPORTANT INFORMATION

Minimum sample amounts

Soil 500 grams | Plant 200 grams | Water 500 ml

SOIL TEST

Please ensure a minimum of 500g of soil is provided per test.

TEST	ANALYTE(S)	CODE
BASIC SOIL	pH (H ₂ O), EC, % Moisture; Na, K, Ca, Mg, Al; CEC, Ca/Mg ratio, % base saturation	S1
SOIL FERTILITY	pH (H ₂ O + CaCl ₂), EC, % Moisture, Organic Matter; Na, K, Ca, Mg, Al, Cu, Zn, Mn, Fe, B, S, P, NO ₃ -N, NH ₄ -N; CEC, Ca/Mg ratio, % base saturation	S2
MEHLICH III	LOI Loss on Ignition, pH (H ₂ O + CaCl ₂), EC Mehlich 3 extractable metals, Al, B, Ca, Cu, Fe, Mg, Mn, K, Na, S, Zn, P, CEC, Ca/Mg ratio, % Base Saturation	S3
HEAVY METAL SCAN	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn	S4
HEAVY METAL SCAN PLUS	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn, Hg	S5
SPECIFIED ELEMENT TESTS*	Please contact Westgate Labs for more information.	

SOIL PHYSICAL ANALYSES

Please ensure a minimum of 500g - 1kg of soil is provided per test.

TEST	ANALYSIS	CODE
PARTICLE SIZE ANALYSIS	Sieving (7 fractions)	G1
SATURATED HYDRAULIC CONDUCTIVITY	16 & 32 drops	G2
ROOTZONE SUITABILITY ANALYSIS	Sieving (7 fractions), compacted hydraulic conductivity (16 & 32 drops only), volumetric water, aeration porosity, total porosity, bulk density, pH (water), pH (CaCl ₂), EC & Total Soluble Salts	G3
BUNKER SUITABILITY ANALYSIS	Sieving (7 fractions), compacted hydraulic conductivity, total porosity, bulk density, angle of repose, crusting strength, ball plugging and colour	G4

WATER TEST

Please ensure a minimum 500 mL - 1L of water is provided per test.

TEST	ANALYTE(S)	CODE
BASIC WATER	pH, EC; P, K, Ca, Mg, S, Mn, Zn, B, Cu, Fe, Mo, Na, NO ₃ -N	W1
IRRIGATION SUITABILITY ANALYSIS	pH, EC, P, K, Ca, Mg, S, Mn, Zn, B, Cu, Fe, Mo, Na; Cl, NO ₃ -N, HCO ₃ , NO ₃ -N	W2
IRRIGATION SUITABILITY ANALYSIS PLUS	pH, EC, P, K, Ca, Mg, S, Mn, Zn, B, Cu, Fe, Mo, Na; Cl, NO ₃ -N, HCO ₃ ; TDS, SAR, pHc, RSC, Water Hardness, Cation/Anion Ratio	W3
HEAVY METAL SCAN	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn, Min 1L water	W4
HEAVY METAL SCAN PLUS	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn, Hg. Min 1L water needed.	W5
MICROBE ANALYSIS	Algae Identification, E. Coli, Total Coliforms	W6
ENVIRONMENTAL SCAN	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn; Algae Identification, E. Coli, Total Coliforms. Min 1L water needed.	W7
SPECIFIED ELEMENT*	Other elements not otherwise analysed	W8

PLANT PATHOLOGY

Please ensure a minimum of 500g plant tissue/soil per test.

Turf: 2-4 2-inch plugs (or equivalent) per test.

Nematode samples require 250g - 500g of soil

TEST	ANALYSIS	CODE
RAPID DISEASE ID	Fungal Pathogens, Basic Plant Health. 1 page report.	P1
INCUBATED DISEASE ID	Fungal Pathogens - incubated over 48 hours, Basic Plant Health	P2
PLATE CULTURE	Analysis - Fungal pathogens incubated from plant tissue on PDA media (5 - 7 day incubation)	P3
NEMATODE ID	Plant Parasitic Nematodes, 250g soil.	P4
ROOT HEALTH ANALYSIS	Fungal Pathogens - incubated over 48 hours, Plant Parasitic Nematodes, Basic Plant Health	P5
ROOT HEALTH ANALYSIS + S1	Fungal Pathogens - incubated over 48 hours, Plant Parasitic Nematodes, Basic Plant Health. Plus, basic soil test code S1	P6
ROOT HEALTH ANALYSIS + W1	Fungal Pathogens - incubated over 48 hours, Plant Parasitic Nematodes, Basic Plant Health. Plus, basic water test code W1	P7
SOIL DISEASE ID	Fungal Pathogens (7-day incubation)	P8
MYCORRHIZAL FUNCTION	Presence and composition of beneficial mycorrhizal fungi	P9

PLANT TISSUE

Please ensure a minimum 200g - 500g plant tissue per test.

TEST	ANALYTE(S)	CODE
GENERAL PLANT TISSUE	N, P, K, S, Ca, Mg, Cu, Zn, Mn, Fe, B, Na, Mo	T1
FULL PLANT TISSUE	N, P, K, S, Ca, Mg, Cu, Zn, Mn, Fe, B, Na, Mo, Cl, NO ₃ -N	T2
HEAVY METAL SCAN	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn	T3
HEAVY METAL SCAN PLUS	Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Th, Ti, U, V, Zn, Hg	T4
SPECIFIED ELEMENT*	Other elements not otherwise analysed	T5

HERBICIDE RESIDUE

*All herbicide testing can be catered to the clients needs, for a more accurate price and test package please contact us.

TEST	ANALYSIS	CODE
MULTI RESIDUE SCAN	46 compounds scans in soil / water	HR1
EXTENDED RESIDUE SCAN	160 compound scans in plant material	HR2
PHENOXY ACIDS	(Free acids)	HR3
CARBAMATES	9 Analytes	HR4
TRIAZINE		HR5
SULFONYL UREA HERBICIDES		HR6
SYNTHETIC PYRETHROIDS		HR7
GLYPHOSATE, AMPA AND GLUFOSINATE		HR8
SPECIFIC TESTS	Contact Westgate Labs for price HR9	HR9

MISCELLANEOUS

TEST	ANALYSIS	CODE
WEED ID	Identification of plant weed species	M1
MITE ID	Identification of plant parasitic mite species	M2
INSECT ID	Identification of insect pest species	M3



WESTGATE LABS PTY LTD | PO BOX 8506, ORANGE EAST NSW 2800

+61 (0) 406 438 320 @ results@westgatelabs.com.au

westgatelabs.com.au @ westgatelabsptyltd @WPtyLtd