

Client No: 1001
Lab No: 47130 - 47132

Customer: Organics By Gosh

Representative: Pat Whitman

Date: December 3, 2018

Field:

Plant Available Nutrient Analysis									Optimum
Lab No.	47130	47131	47132						
Sample ID	TP TM	TP HG	TP Jireh						
Texture	org	org	org						
% O.M. (Total by LOI)									
% O.M. (Humus)	8.77	8.59	8.39						> 3.00
Carbonate (CO ₃)	VH	VH	H						M - H
pH (STD Unit)	7.92	7.96	7.69						6.1 - 7.9
Salts-EC (mmhos/cm)	1.78	1.17	2.06						< 10.00
Nutrients in Parts Per Million (ppm) Carbon Dioxide Extraction - CO ₂ Mimics plant roots natural extraction									
Nitrate-Nitrogen (NO ₃ -N)	194	173	4						50 - 199
Phosphorous (P ₂ O ₅ -P)	76	62	104						20 - 69
Nutrients in Parts Per Million (ppm)									
Potassium (K-H ₂ O)	1364	902	1610						100 - 249
(K-CO ₂)	1918	1249	2238						175 - 499
Sodium (Na-H ₂ O)	777	386	776						< 349
(Na-CO ₂)	944	442	966						< 499
Calcium (Ca-H ₂ O)	273	432	387						75 - 224
(Ca-CO ₂)	1347	1770	1327						300 - 899
Magnesium (Mg-H ₂ O)	43	61	54						25 - 99
(Mg-CO ₂)	235	255	219						75 - 199
Ratios Na/Ca	4	1	3						< 5
Na/Mg	22	7	18						<10
Micronutrients DTPA Extraction									
Zinc (Zn)	6.05	5.46	6.47						5-15
Iron (Fe)	84.31	43.45	50.11						15-30
Manganese (Mn)	21.79	7.43	23.96						15-35
Copper (Cu)	2.14	1.85	2.32						2-4
Boron (B)									1-3
Solvita (C-CO ₂ Burst)									> 60
COMMENTS:	Low		Marginal	Adequate		High			

Salt Cations: H₂O = Immediately Available (Water Soluble By Modified Saturated Media Extract (MSME)); CO₂ = Available Reserve (By Carbonic Acid Extraction (H₂CO₃E - Reserves).
CO₂ Natural Extraction Method calibrates well to plant uptake (availability). These values are the nutrients available in the sample analyzed in our lab.

Organic Matter tests in optimum to high range - Some slo-release N should be available from favorably high Organic Matter (available – Humus fraction).

AVAILABLE PLANT NUTRIENTS are in the salt form in good compost; excess NO₃, K and Na are toxic at high levels although plants can tolerate more soluble Ca and Mg. This is, of course, only if used as a direct growing media. It best to use as a topdressing material or incorporated into the native soil.

TOTAL SALTS (E.C.): low levels are desired in potting soils/compost (< 5) whereas, in case of fresh compost the values may be acceptable in the range of 5-10 when the resulting mixture is thoroughly leached of soluble salts below the root zone.

POTASSIUM SALTS (K H₂O): low levels are expected if used as a direct growing media (< 500); whereas, with fresh compost may be in the range 500-1,500 and should be diluted to minimize germination or seedling problems and/or thoroughly leached.

pH: Compost should be neutral to slightly acid 6.0 to 7.5 – need to control if above 8.4.

If additional clarification of report(s) is desired, personalized consultation is available for \$25 per 10 minute increments, when lab work is ordered. Without lab work, the fee is \$250 per hour. CALL to set up your telephone consultation appointment.

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