



Certificate Of Analysis
(COA)
Energy L-12

Parameter	Level	Unit
Humic Acid	12	% Colorimetric
	≥ 6	% ISO 19822:2018
Fulvic Acid	2	% ISO 19822:2018
pH	13	SU
Moisture	83	%
Electric Conductivity (EC)	56	dS/m
Cation Exchange Capacity (CEC)	259	meq/ 100g
Total Carbon	7.8	%
Total Organic Carbon	5.2	%
Total Organic Matter (OM)	9	%
Ash Content	7.6	%
Total Nitrogen (N)	0.51	%
C:N Ratio	15:1	
Macro & Micro-Elements		
Phosphorus, P	0.0042	%
Potassium, K ₂ O	3.6	%
Magnesium, Mg	0.02	%
Manganese, MN	24	ppm
Boron, B	4.1	ppm
Zinc, Zn	1.9	ppm
Iron, Fe	288	ppm
Calcium, Ca	0.16	%
Copper, Cu	0.61	ppm
Molybdenum, Mo	0.1	ppm
Selenium, Se	0.39	ppm
Silicon, Si	57	ppm
Sulfur, S	0.053	%
Sodium, Na	0.056	%
Heavy Metals		
Lead, Pb	0.74	ppm
Mercury, Hg	<0.1	ppm
Aluminum, Al	0.06	%
Arsenic, As	0.23	ppm
Chromium, Cr	0.42	ppm

Sources: A & L Laboratories, October 15, 2024.