



## CERTIFICATE of ANALYSIS

Performed by:

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**Product: First Choice Humic Acid Enhancer**

<u>Parameter Name</u>	<u>Result</u>	<u>Trace Elements:*</u>	
Nitrogen	(N) <sub>H</sub> 0.05 % (a)	Holmium	Neodymium
Phosphoric Acid as	P <sub>2</sub> O <sub>5</sub> <sub>H</sub> 0.41 % (a)	Europium	Selenium <sub>H</sub>
Potash	(K <sub>2</sub> O) <sub>H</sub> 0.70 % (a)	Copper <sub>H</sub>	Barium
Zinc	(Zn) <sub>H</sub> 5 ppm (a)	Antimony	Samarium
Iron	(Fe) <sub>H</sub> 160 ppm (a)	Nickel <sub>H</sub>	Beryllium
Manganese	(Mn) <sub>H</sub> 5 ppm (a)	Bismuth	Tin
Magnesium	(Mg) <sub>H</sub> 0.02 % (a)	Zirconium	Chloride <sub>H</sub>
Total Sulfur	(S) <sub>H</sub> 0.04 % (a)	Lithium <sub>H</sub>	Mercury
Calcium	(Ca) <sub>H</sub> 0.046 % (d)	Palladium	Platinum
Sodium	(Na) <sub>H</sub> 0.002 % (d)	Rhodium	Rubidium
Boron	(B) <sub>H</sub> 1.19 ppm (d)	Silver	Tellurium
Bicarbonate	122 ppm (d)	Fluoride <sub>H</sub>	Thulium
Sulfate	(SO <sub>4</sub> ) <sub>H</sub> 4,000 ppm (d)	Vanadium <sub>H</sub>	Dysprosium
Humic Acid	1.00% (a)	Gold	Praseodymium
C:N Ratio	14:1	Erbium	Rhenium
EC mmhos/cm	19.90 (d)	Thallium	Silicon <sub>H</sub>
Sodium Absorption (SAR)	2.67 (d)	Iridium	Aluminum <sub>H</sub>
Total soluble salts (TDS)	15,623 ppm (d)	Terbium	Titanium <sub>H</sub>
		Lutetium	Gallium
pH	9.22 (d)	Niobium	Molybdenum <sub>H</sub>
Weight per gallon	8.46	Lanthanum	Germanium
		Ruthenium	Iodine
Total Solids	36.83 ppm (b)	Yttrium	Bromine <sub>H</sub>
Total Suspended Solids	10.85 ppm (b)	Indium	Tungsten
Total Dissolved Solids	22.63 ppm (b)	Cobalt <sub>H</sub>	Tantalum
Total Settable Solids	3.34 ppm (b)	Scandium	Hafnium
Solids Organic Matter (Carbon <sub>H</sub> )	78.5 % (b)	Ytterbium	

<u>Microbial Analysis:</u>	<u>Enumeration (CFU/ml)</u>
Aerobic bacteria	2.3 X 10 <sup>6</sup> (c)
Yeasts and Molds	2.1 X 10 <sup>4</sup> (c)
Pseudomonads	1.1 X 10 <sup>4</sup> (c)
Actinomycetes	2.8 X 10 <sup>5</sup> (c)
Nitrogen-Fixing Bacteria	3.3 X 10 <sup>5</sup> (c)
Anaerobic Bacteria	4.9 X 10 <sup>5</sup> (c)
Algae enumeration and identification	1.9 X 10 <sup>7</sup> cells/ml (c)
<u>Genus</u>	<u>Biomass estimate (c)</u>
Anacystis	85%
Merismopedia	5-10%
Anabaena	2%
Chlamydomonas	few
Diatoms	few

<u>Typical Hormone Analysis</u>	
<u>Compound</u>	<u>(g/15 ml H<sub>2</sub>O)</u>
Abacisic Acid (ABA)	0.02
Adenine	0.03
Adenosine	0.06
Indole Acetic Acid	0.05
Zeatin	0.05

\* = Trace elements verified by:  
 1) University of Arizona  
 2) Ford Chemical Laboratory  
 H = Known plant elements