

- CERTIFICATE of ANALYSIS -

<b>Product Name:</b>	Fulvic Mineral Powder	<b>Product Number:</b>	Proprietary Information Removed
<b>Country of Origin:</b>	United States	<b>Batch Number:</b>	22010
<b>Handling Instructions:</b>	See MSDS attached	<b>Date of Manufacture:</b>	01/10/2022
	Proprietary Information Removed	<b>Expiration Date:</b>	01/2027
<b>Packaging:</b>	1 / 5 / 10 / 25 / 90 Kilograms	<b>Lab Report Numbers:</b>	229214-01, 22B0426-01
		<b>Test Completion Date(s):</b>	03/04/2022, 02/28/2022

Physical Data:	Specification	Result	Per Unit	Method
% Soluble	100	100	%	Standard
pH (5% solution)	7.0-9.0	8.34	N/A	EPA 150.1
Moisture (%)	< 5.0	1.48	%	Modifies USP <921> Method 111
Water Activity (Aw)	< 0.86	0.068	N/A	AOAC 978.18
Particle Size (mesh)	40 mesh	> 99.9	% Passing	USP <786>
Sample Type:	Brown Powder	Conforms	N/A	Physical/Visual
Fulvic Acid: (%)	> 35 %	38.59	%	J AOAC, 97 (3): 721-730/L IHSS/LAMAR/AOAC

Minerals	Specification ppm	Result	Per Unit	Method
Calcium	18,000 - 45,000	42,420	ppm	ICP-OES USP <730>
Iron	1500 - 10,000	2,303	ppm	ICP-OES USP <730>
Magnesium	1000 -4,500	1,751	ppm	ICP-OES USP <730>
Potassium	15,000 - 35,000	29,608	ppm	ICP-OES USP <730>
Sodium	10,000 - 40,000	32,518	ppm	ICP-OES USP <730>
Sulfur	25,000 - 85,000	54,820	ppm	ICP-OES USP <730>

Heavy Metals	Specification ppm	Result	Per Unit	Method
Arsenic	< 2	0.425	ppm	ICP-MS USP <730>
Cadmium	< 0.5	0.104	ppm	ICP-MS USP <730>
Lead	< 2	0.096	ppm	ICP-MS USP <730>
Mercury	<0.10	<0.001	ppm	ICP-MS USP <730>

Microbiology:	Specification	Result	Per Unit	Method
Total Aerobic Microbial Count	< 10,000	< 10	CFU/g	USP <2021>
Coliform Count	< 3	< 3	MPN/g	FDA BAM
E. Coli Count	< 3	< 3	MPN/g	FDA BAM
Salmonella	Absent per 10 g	Absent	per 25 g	USP <2022>
Staphylococcus	Absent per 10 g	Absent	per 10 g	USP <2022>
Yeast	< 100	<10	CFU/g	USP <2021>
Mold	< 100	< 10	CFU/g	USP <2021>

Quality Unit Release Date: 03/11/2022

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Proprietary Info Removed **Fulvic Mineral Nutraceutical Powder**

**Product Number:** Proprietary Information Removed

**pH:** 7.0 - 9.0

**Fulvic Acid Content:** 40% as validated by Lamar et al., 2014 (JAOAC 97(3): 721-730) standardized quantification method for fulvic acid.

**Humic Acid Content:** Historically, laboratory testing performed on a range of batches consistently demonstrated levels of Humic Acid <1%, with a typical range of 0.2%-0.75%.

**Dense Molecular Complex:** 60% polyphenol flavonoid antioxidants, organic acids, amino acids, trace minerals, and electrolytes.

**Recommended use:**

A functional ingredient to enhance powdered formulations, functional foods and body care products.

Adds essential micronutrients. Up to 100 mg for a daily dose.

To activate a formula (increase the bioavailability) 12-24mg avg.

May also be used as a stand-alone product.

**Description:** A finely milled high fulvic acid, trace mineral nutraceutical powder that is 100% soluble with a neutral pH base. Smoky pleasant taste and aroma. It is stable when added to neutral pH liquids or high pH liquids. If the powder is added to a low pH liquid (pH 2.0 - 3.0) precipitation may result over time. Contains polyphenol micronutrients (plant biochemicals) such as organic acids, minerals, electrolytes, fulvic acid, trace minerals, amino acids, and flavanones (antioxidants).

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