

- CERTIFICATE OF ANALYSIS -

<b>Material:</b>	Alkaline Fulvic Mineral Liquid Concentrate	<b>Product Number:</b>	HHAK10FA100
<b>Country of Origin:</b>	United States	<b>Batch Number:</b>	<b>24036</b>
<b>Handling Instructions:</b>	See MSDS attached	<b>Date of Manufacture:</b>	2/05/2024
<b>Laboratory FDA Registration Number:</b>	11405908668	<b>Retest Date:</b>	2/2029
<b>Mineral Logic FDA Registration Number:</b>	18395658198	<b>Lab Report Numbers:</b>	259398-01, 24B0178-01
<b>Packaging:</b>	1 / 20 / 1000 Liters or 1 / 30 / 55 / 275 Gallons	<b>Test Completion Date(s):</b>	2/23/2024 and 3/7/2024

Physical Data:	Specification	Result	Per Unit	Method
pH	11.3 – 14.0	13.60	N/A	EPA 150.1 or AOAC 943.2
Appearance/Color	Brown-Black Liquid	Complies	N/A	Visual
Sample Type:	Liquid	Complies	N/A	Physical/Visual
SG = Specific Gravity (G/CC) 20° C:	1.000-1.200	1.03	N/A	Modified USP <841> or Standard
Total Dissolved Solids	8-15 %	12.2	%	AOAC 920.193
Fulvic Acid: (%)	2-7 %	6.49	%	IHSS/Lamar/AOAC

Minerals	Specification ppm	Result	Per Unit	Method
Calcium	50 - 5,000	95.8	ppm	ICP-OES USP <730>
Magnesium	25 -1,500	85.8	ppm	ICP-OES USP <730>
Potassium	7,000 - 20,000	17,800	ppm	ICP-OES USP <730>
Sodium	2,000 - 5,000	4,760	ppm	ICP-OES USP <730>
Sulfur	5,000 - 11,000	7,200	ppm	ICP-OES USP <730>

Heavy Metals	Specification ppm	Result	Per Unit	Method
Arsenic	< 2	0.041	ppm	ICP-MS USP <730>
Cadmium	< 0.5	0.016	ppm	ICP-MS USP <730>
Lead	< 2	0.010	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	< 10	< 3	MPN/g	FDA BAM
E. Coli Count	< 10	< 3	MPN/g	FDA BAM
Salmonella	Absent per 10 g	Absent	per 10 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: 3/11/2024

Released by:



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