

- CERTIFICATE of ANALYSIS -

<b>Product Name:</b>	MLG-50 Fulvic Mineral Liquid Concentrate	<b>Product Number:</b>	HHD30FA104
<b>Country of Origin:</b>	United States	<b>Batch Number:</b>	<b>23262</b>
<b>Handling Instructions:</b>	See SDS attached	<b>Date of Manufacture:</b>	09/19/2023
<b>Laboratory FDA Registration Number:</b>	14353128308	<b>Retest Date:</b>	09/2028
<b>Mineral Logic FDA Registration Number:</b>	18395658198	<b>Lab Report Numbers:</b>	253695-01, 23A0373-01
<b>Packaging:</b>	1 oz., 2 oz. 20 L, 1,000 L	<b>Test Completion Date(s):</b>	10/02/23, 1/26/2023

Physical Data:	Specification	Result	Per Unit	Method
pH	1.8-2.3	1.97	N/A	EPA 150.1
SG=Specific Gravity (G/CC)	1.050-1.200	1.09	G/CC	Modified USP <841>
Sample Type:	Liquid	Complies	N/A	Physical/Visual
Total Dissolved Solids:	2-16	15.0	%	AOAC 920.193
Water Activity:	0.90-0.95	0.91	Aw	AOAC 978.18
Fulvic Acid: (%)	3-6.5	3.35	%	IHSS/Lamar/AOAC

Minerals	Specification ppm	Result	Per Unit	Method
Calcium	<6,500	455	ppm	ICP-OES USP <730>
Iron	8000 - 20,000	11,800	ppm	ICP-OES USP <730>
Magnesium	500 -10,000	850	ppm	ICP-OES USP <730>
Sodium	1,000 - 8,000	8,000	ppm	ICP-OES USP <730>
Sulfur	10,000 - 50,000	22,100	ppm	ICP-OES USP <730>
Aluminum	<2,500	2,190	ppm	ICP-OES USP <730>

Heavy Metals	Specification ppm	Result	Per Unit	Method
Arsenic	< 10	1.74	ppm	ICP-MS USP <730>
Cadmium	< 1	0.309	ppm	ICP-MS USP <730>
Lead	< 2	0.021	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 10 g	USP <2022>
Staphylococcus aureus	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: 10/03/2023

Released by:



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