

## COA TYPICAL ANALYSIS

Product Name:	MLG-80 Trace Mineral Liquid Concentrate	Product Number:	HHD50
Country of Origin	USA	Batch Number:	<b>22306-C</b>
Handling Instructions:	See SDS attached	DOM:	11/02/2022
Laboratory FDA registration	# 14353128308	Retest date:	11/02/2027
Mineral Logic FDA registration	# 18395658198	Lab Report Numbers:	253695-01, 208997, 952720-1
Packaging:	1 oz., 2 oz. 20 L, 1,000 L	Test Completion Date:	10/2/2023, 9/20/2024, 10/17/2024

Physical Data:	Specification	Per Unit	Result	Method
Specific Gravity	1.0 -1.2		1.10	Modified <USP> 841
pH	1.5 -2.5		1.54	EPA 150.1
Total Dissolved Solids (%)	9 -18		12.4	AOAC 923.193
Color	Dark Amber Liquid		Complies	Visual
Sample Type:	Aqueous		Aqueous	Physical/Visual

### Analytes:

Fulvic Acid (%)	1-8	%	3.48	LAMAR/JAOAC 97(3): 721-730
	1-8		4.72	V&B
Aluminum		ppm	3,810	ICP-OES USP <730>
Calcium		ppm	654	ICP-OES USP <730>
Iron		ppm	19,200	ICP-OES USP <730>
Magnesium		ppm	1,500	ICP-OES USP <730>
Sodium		ppm	143	ICP-OES USP <730>
Sulfur		ppm	26,100	ICP-OES USP <730>
Silver		ppm	< 0.1	ICP-OES USP <730>
Gold		ppm	< 1	ICP-OES USP <730>
Boron		ppm	< 2	ICP-OES USP <730>
Barium		ppm	< 0.1	ICP-OES USP <730>
Beryllium		ppm	3.5	ICP-OES USP <730>
Cerium		ppm	39.8	ICP-OES USP <730>
Cobalt		ppm	27.9	ICP-OES USP <730>
Copper		ppm	0.8	ICP-OES USP <730>
Dysprosium		ppm	3.8	ICP-OES USP <730>
Erbium		ppm	2.0	ICP-OES USP <730>
Europium		ppm	1.0	ICP-OES USP <730>
Gallium		ppm	0.1	ICP-OES USP <730>
Gadolinium		ppm	4.6	ICP-OES USP <730>
Germanium		ppm	1.6	ICP-OES USP <730>
Hafnium		ppm	< 0.2	ICP-OES USP <730>
Holmium		ppm	0.7	ICP-OES USP <730>
Iridium		ppm	< 0.2	ICP-OES USP <730>
Lanthanum		ppm	15.1	ICP-OES USP <730>
Lithium		ppm	1.1	ICP-OES USP <730>

Lutetium	ppm	0.2	ICP-OES USP <730>
Manganese	ppm	77.6	ICP-OES USP <730>
Molybdenum	ppm	< 0.1	ICP-OES USP <730>
Niobium	ppm	< 0.1	ICP-OES USP <730>
Neodymium	ppm	23.1	ICP-OES USP <730>
Nickel	ppm	25.6	ICP-OES USP <730>
Phosphorus	ppm	50.5	ICP-OES USP <730>
Praseodymium	ppm	5.3	ICP-OES USP <730>
Platinum	ppm	< 0.1	ICP-OES USP <730>
Rubidium	ppm	< 0.1	ICP-OES USP <730>
Rhenium	ppm	< 0.1	ICP-OES USP <730>
Rhodium	ppm	< 0.1	ICP-OES USP <730>
Ruthenium	ppm	< 0.1	ICP-OES USP <730>
Antimony	ppm	< 0.1	ICP-OES USP <730>
Selenium	ppm	< 0.1	ICP-OES USP <730>
Silicon	ppm	117	ICP-OES USP <730>
Samarium	ppm	4.9	ICP-OES USP <730>
Tin	ppm	< 0.1	ICP-OES USP <730>
Strontium	ppm	5.1	ICP-OES USP <730>
Tantalum	ppm	< 0.1	ICP-OES USP <730>
Thorium	ppm	18	ICP-OES USP <730>
Titanium	ppm	0.5	ICP-OES USP <730>
Thallium	ppm	< 0.1	ICP-OES USP <730>
Thulium	ppm	0.3	ICP-OES USP <730>
Uranium	ppm	4.1	ICP-OES USP <730>
Vanadium	ppm	5.2	ICP-OES USP <730>
Tungsten	ppm	< 0.1	ICP-OES USP <730>
Zinc	ppm	22	ICP-OES USP <730>
Zirconium	ppm	< 0.1	ICP-OES USP <730>

Heavy Metals:

Arsenic	< 12	ppm	2.05	ICP-OES USP <730>
Cadmium	< 1	ppm	0.534	ICP-OES USP <730>
Lead	< 2	ppm	0.014	ICP-OES USP <730>
Mercury	<0.1	ppm	0.003	ICP-OES USP <730>

Microbiology:

Total Aerobic Microbial Count	< 1,000	CFU/g	< 10	USP <2021>
Coliform Count	< 10	MPN/g	< 3	FDA BAM
E. Coli Count	< 10	MPN/g	< 3	FDA BAM
Salmonella	Absent	per 10 g	Absent	USP <2022>
Staphylococcus aureus	Absent	per 10 g	Absent	USP <2022>
Yeast	< 100	CFU/g	<10	USP <2021>
Mold	< 100	CFU/g	< 10	USP <2021>

Quality Unit Release Date: 10/18/2024

Released by:

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