

Report For:

Company Name

Sample Identification:

Product ID: abcdef - Lot# xxxx

Sampled on

Date Received:

Laboratory Number: 44xxxx

CERTIFICATE OF ANALYSIS

Method	Parameter	Result	Units	Analysis Date / Analyst
SM 2540 B	Total Solids	97.7	%	12-Jul-2021 /JF
SM 4500 H+B	pH, 10% Solution	4.60		19-Jul-2021 /JF
ANALYSIS ON DRY BASIS				
AOAC 955.04	Total Kjeldahl Nitrogen (N)	17.79	%	12-Jul-2021 /CR
AOAC 993.31 D.3	Phosphate, Available (P2O5)	1.14	%	12-Jul-2021 /JF
AOAC 958.02	Potassium, Water Soluble (K2O)	< 0.01	%	
AOAC 2006.03	Iron (Fe)	2.29	%	13-Jul-2021 /DS
AOAC 928.02	Chloride (Cl)	0.03	%	12-Jul-2021 /JF
AFPC IX.18.A	Sulfur, Total	20.45	%	12-Jul-2021 /DN
EPA xxxx	Rhizobium spp.	2 x 10 ⁴	CFU/g	09-Jul-2021 /CG
EPA xxxx	Total Microorganism	2 x 10 ⁴	CFU/g	09-Jul-2021 /CG
	<i>Bacillus</i> enumeration	2 x 10 ⁴	CFU/g	09-Jul-2021 /CG
	<i>Trichoderma</i> enumeration	2 x 10 ⁴	CFU/g	09-Jul-2021 /CG

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Company address
Tampa, FL 34777

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Method	Parameter	Result	Detection Units	Analysis Specification	Date/Analyst
USP 2021	Total Aerobic Plate Count	< 10	CFU/gram	NMT 1,000 cfu/g	08-Jul-2020 / CG
	Total Yeast and Mold Count	< 10	CFU/gram	NMT 100 cfu/g	08-Jul-2020 / CG
USP 2022	Escherichia coli	Negative		Absent in 10g	08-Jul-2020 / CG
EPA 1681	Fecal Coliform	< 2	MPN/g	xxxxxxxxxxx	08-Jul-2020 / CG
EPA 1682	Salmonella	< 2.6	MPN/4g	xxxxxxxxxxx	08-Jul-2020 / CG
	Shigella	< 10	CFU/gram	NMT 100 cfu/g	08-Jul-2020 / CG
	Staphylococcus	< 10	CFU/gram	NMT 100 cfu/g	08-Jul-2020 / CG
	Listeria monocytogenes	Negative		Absent in 10g	08-Jul-2020 / CG
	Enterococcaceae	< 10	CFU/gram	NMT 100 cfu/g	08-Jul-2020 / CG

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Method	Parameter	Result	Units	Detection Limit-	Analysis Date/Analyst
EPA 6010	Arsenic (As), Total	1.9	mg/Kg	0.01	07-13-21 DS
	Cadmium (Cd), Total	0.4	mg/Kg	0.01	07-13-21 DS
	Chromium (Cr), Total	19	mg/Kg	0.01	07-13-21 DS
	Cobalt (Co), Total	1.9	mg/Kg	0.01	07-13-21 DS
	Copper (Cu), Total	72	mg/Kg	0.01	07-13-21 DS
	Lead (Pb), Total	16	mg/Kg	0.01	07-13-21 DS
EPA 7473	Mercury (Hg), Total	0.34	mg/Kg	0.01	07-15-21 JF
EPA 6010	Molybdenum (Mo), Total	3.3	mg/Kg	0.01	07-13-21 DS
	Nickel (Ni), Total	7.0	mg/Kg	0.01	07-13-21 DS
	Zinc (Zn), Total	217	mg/Kg	0.01	07-13-21 DS
	Selenium (Se), Total	< 0.3	mg/Kg	0.10	07-13-21 DS

Method Description(s)

AOAC 955.04: Total Nitrogen-

A homogeneous portion of the sample is digested in sulfuric acid with the aid of catalysts to convert all nitrogenous forms to ammonia which is then distilled into a standard acid solution and measured by titration.

AOAC 985.01: Total Phosphorus (P205)

Sample is digested with mineral acids and heat. An aliquot of the digestate is treated with molybdate/metavanadate reagent to produce the phospho-molybdate complex which is read spectrophotometrically.

AOAC 993.31D.3: Available Phosphate (P205)

Sample is extracted with neutral ammonium citrate and Edta solution and the Available phosphate is determined gravimetrically with Quimociac reagent.

AFPC IX.18.A: Total Sulfur

Sample is digested with bromine and nitric acid to oxidize all sulfur forms to sulfate which is then measured gravimetrically.

AOAC 2006.03 - Iron

Sample is digested in mixed mineral acid and an aliquot of the prepared digestate is analyzed by ICP.

EPA 6010b, Inductively Coupled Plasma (ICP).

A light emission technique where prepared samples are injected into a high-energy plasma that forces the elements in the injected sample to emit light energies which are proportional to the level of minerals and metals present. The light is then detected and correlated to the levels of minerals and metals in the associated calibration standard.

EPA 7473, Thermal combustion (DMA).

Samples are weighed following the procedure and analyzed in a 'thermal combustion' system. The Hg vapor is trapped, released and measured.

EPA 1681, Fecal coliforms, using A-1 medium and multiple tube technique

A measured amount of sample is inoculated into an enrichment media (A-1) and incubated @ 35 OC for 3 hours, followed by further incubation @ 44 OC for 24 hours. Tubes are examined for growth and gas production which is an indicate the presence of fecal coliforms.

EPA 1682, Salmonella by Modified Rappaport-Vassiliadis (MSRV) Medium

A measured amount of sample is inoculated into an enrichment medium (Tryptic Soy Broth-TSB), and incubated for 24 hours. After inoculation, TSB is spotted onto MSRV medium. The MSRV medium uses novobiocin and malachite green to inhibit non-Salmonella species, while allowing most Salmonella species to grow. Presumptively identified colonies are isolated and confirmed by other techniques.
