

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066**

REPORT OF ANALYSIS

For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3

Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: Everlizer 3-3-3		Lab Number: 8759469					
Nitrogen (total)	3.53	3.89	%	0.01	MWL WC PROC 55	jdm3-2020/05/27	asl4-2020/05/28
Water soluble nitrogen	1.06		%	0.01	Calculation	Auto-2020/05/27	Auto-2020/05/28
Water insoluble nitrogen (WIN)	2.07		%	0.01	AOAC 945.01/2001.11	cbv7-2020/05/27	asl4-2020/05/28
Total Kjeldahl nitrogen (TKN)	3.13		%	0.01	AOAC 2001.11	man0-2020/05/22	asl4-2020/05/28
Ammonium nitrogen (total)	0.401	0.442	%	0.001	AOAC 920.03 (mod)	man0-2020/05/26	asl4-2020/05/28
Nitrate-nitrogen	n.d.	n.d.	%	0.01	WC PROC 32	ach3-2020/05/21	asl4-2020/05/28
Phosphate (P2O5)	3.48	3.83	%	0.10	MWL ME PROC 26	Auto-2020/05/22	asl4-2020/05/28
Phosphorus (total)	1.52	1.67	%	0.05	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
Potash (K2O)	4.54	5.00	%	0.05	MWL ME PROC 26	Auto-2020/05/22	asl4-2020/05/28
Potassium (total)	3.77	4.15	%	0.05	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
pH	6.57		S.U.	0.01	EPA 9045	lkm2-2020/05/22	asl4-2020/05/28
Humic acid	n.d.		%	0.10	Calif HA4/JC (rev. 2:3-11-09)	may8-2020/05/27	asl4-2020/05/28
Carbon (total)	31.22	34.38	%	0.050	ASTM D 5373 (mod)	jdm3-2020/05/27	asl4-2020/05/28
Calcium (total)	4.52	4.98	%	0.01	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
Sulfur (total)	0.75	0.83	%	0.05	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
Magnesium (total)	0.83	0.91	%	0.01	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
Manganese (total)	574	632	ppm	20.0	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
Boron (total)	64.7	71.2	mg/kg	5.00	EPA 6010	ery3-2020/05/26	kkh9-2020/05/28
Iron (total)	2120	2330	ppm	50.0	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066**

REPORT OF ANALYSIS

For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3

Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: Everlizer 3-3-3	Lab Number: 8759469 (con't)						
Molybdenum (total)	14.0	15.4	mg/kg	1.0	EPA 6010	ery3-2020/05/26	kkh9-2020/05/28
Copper (total)	582	641	mg/kg	1.0	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Zinc (total)	472.8	520.7	mg/kg	2.0	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Selenium (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Nickel (total)	6.6	7.3	mg/kg	1.0	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Mercury (total)	n.d.	n.d.	mg/kg	0.05	EPA 7471	trh1-2020/05/27	kkh9-2020/05/28
Chloride	1.04	1.14	%	0.01	Soil Sci. & Plant Anal. 1970	sjl7-2020/05/21	asl4-2020/05/28
Sodium (total)	0.90	0.99	%	0.01	MWL ME PROC 26	trh1-2020/05/21	asl4-2020/05/28
Cadmium (total)	n.d.	n.d.	mg/kg	0.50	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Arsenic (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Cobalt (total)	n.d.	n.d.	mg/kg	1.00	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Chromium (total)	5.14	5.66	mg/kg	1.00	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Lead (total)	n.d.	n.d.	mg/kg	5.0	EPA 6010	ery3-2020/05/23	kkh9-2020/05/28
Salmonella	n.d.	n.d.	MPN/4g	0.26	EPA 1682	gmk6-2020/05/23	nkw3-2020/05/23
Fecal coliforms	n.d.	n.d.	MPN/g	0.2	EPA 1681	gmk6-2020/05/22	arj0-2020/05/22
E. coli (generic)	< 3.0		MPN/g	3.6	E. coli MPN	nkw3-2020/05/23	arj0-2020/05/23
Percent solids	90.80		%	0.01	SM 2540 G-(1997) *	jsa6-2020/05/22	jdb5-2020/05/26
Bulk density (packed)	0.78		g/cm ³	0.01	MWL Developed	ach3-2020/05/22	asl4-2020/05/28
Listeria monocytogenes	negative		org/25g	1	PCR 24E ASSAY; AFNOR QUA 18/05-07/08	jbk4-2020/05/22	nkw3-2020/05/23

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066**

REPORT OF ANALYSIS

For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3

Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: Everlizer 3-3-3	Lab Number: 8759469 (con't)						
E. coli O157:H7	negative		org/25g	1	Lateral Flow/AOAC RI 070801	tma2-2020/05/21	arj0-2020/05/21
Moisture (vacuum oven - 70°C)	9.20	///////	%	0.01	AOAC 969.35	vrm7-2020/05/22	cmw4-2020/05/22

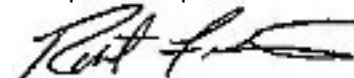
EPA 1681 holding time of < 24 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements.

EPA 1682 holding time of < 6 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. If a level of Salmonella was reported, the value would be considered an estimate. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements.

This report was reissued on 2020-05-29 09:07:52 by raf4 for the following reason:
product name.

n.d. = not detected , MPN = most probable number , ppm = parts per million, ppm = mg/kg

For questions please contact:



Rob Ferris
Account Manager
ferris@midwestlabs.com (402)829-9871

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066****REPORT OF ANALYSIS**For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3**Detailed Method Description(s)****Elemental combustion Nitrogen, Carbon, Hydrogen**

Analysis follows MWL WC 055 which is based on AOAC 993.13. Samples are ground to a fine, homogenous consistency and a small amount weighed and introduced into the instrument. The sample is burned in the presence of oxygen to release gases such as carbon dioxide, nitrogen, and hydrogen and the levels of a specific gas determined and reported.

Calculation

Analytical results are entered into applicable formulas to provide a calculated result which is reported.

Nitrogen (water insoluble)

Sample analysis follows MWL WC 062 which is based on the sample preparation steps in AOAC 945.01 and the analysis of the filter residue by block digestion, distillation, and automated titration.

Total Kjeldahl Nitrogen (TKN)

Analysis follows MWL WC 048 which is based on AOAC 2001.11. Samples are placed in a Kjeldahl digest tube along with acid and a catalyst and placed in a hot block for digestion. After the samples are digested, they are placed on an automatic distillation/titration unit where ammonia-nitrogen levels are measured. The nitrogen result is multiplied by a factor (generally 6.25) to determine the level of protein in the sample

Ammonia (fertilizer/compost)

Analysis follows WC 015 which is based on AOAC 920.03. A sample is placed in a distillation tube and a standard base added to convert ammonium to ammonia. The ammonia is distilled into an acid solution. The acid solution is titrated with a standard acid.

WC PROC 32

The extraction phase is based on ASA (American Society of Agronomy) chapter 38 and uses potassium chloride as the extracting solution. The extract is analyzed by automated cadmium reduction based on EPA 353.2

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066**

REPORT OF ANALYSIS

For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3

ICP Analysis Fertilizers AOAC 985.01 (mod)

Analysis follows MWL ME 026 which is based on AOAC 985.01. Samples have been prepared using MWL WC 056. Total minerals in fertilizers have been prepared by AOAC 957.02 using mineral acids and heat. Water soluble manganese is prepared by AOAC 972.03 and the other water soluble by AOAC 977.01. Sample analysis involves moving the sample extract into the ICP where it is nebulized and introduced into the high temperature plasma which energizes the electrons of the dissolved minerals/metals. As the energized electrons of the minerals/metals return to ground state, energy is released as light. The emitted wavelength(s) and light intensities are used to identify and quantitate the minerals/metals in the sample

pH METER

Sample analysis follows MWL WC 061 which uses a pH meter, probe, and sample slurry. The sample is mixed with a pre-determined amount of water to make a slurry. The slurry is allowed to equilibrate and then a pH meter and probe is used to determine the pH

Humic Acid

Sample analysis follows MWL WC 059 which is based the California HA4/JC(revision 2: 3-11-09 procedure. Samples are dissolved by treatment with 1 N sodium hydroxide and then precipitated with hydrochloric acid. The resultant precipitate is dried and weighed and the result posted in %.

Carbon/nitrogen in coal ASTM D 5373 (mod)

Sample analysis follows MWL PR 263 which references ASTM D 5373 (modified). Samples are placed in a combustion instrument where carbon is oxidized in oxygen to produce carbon dioxide and nitrogen compounds are converted to elemental nitrogen and the levels determined. The modification indicated is the matrix analyzed is not part of the ASTM scope.

ME 042

Analysis follows MWL ME 042 which is based on 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 original sample.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066**

REPORT OF ANALYSIS

For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3

ME 067

Samples are analyzed for mercury using MWL ME 067 which is based upon EPA 7471, cold vapor atomic absorption (CVAA).

Samples are prepared via MWL ME 037 that uses a series of digestion steps involving hot mineral acids and oxidizers so as to destroy organic matter and solubilize mercury. The mercury is reduced by use of stannous chloride to elemental mercury that is then aerated to the light path of a mercury light of an atomic absorption spectrometer (AAS). The absorption of the mercury light at 253.7 nm is then correlated to the level of mercury present in the original sample.

Chloride by Soil Sci. & Plant Anal. 1970

Sample analysis follows MWL WC 054 which is based on a method published in the 1970 volume of Soil Science and Plant Analysis pp 1-6. The sample is extracted with dilute sodium hydroxide and a silver nitrate solution is used to titrate the extract to a potentiometric end point.

EPA 1682 - Salmonella

Sample analysis follows MWL MI 275 which is based on the EPA 1682. A representative sample is homogenized with sterile buffers and inoculated into Tryptic Soy Broth and incubated for 24 hours. Aliquots are added to Modified Semi-solid Rappaport Vassiliadas plates and incubated for 16-18 hours. After incubation, presumptive colonies are carried onto selective agar, then slants. Agglutination is used on presumptive slants. Results are reported as most probable number per 4 grams (MPN/4 g), which are calculated from the number of positive culture tubes and percent total solids.

Fecal Coliform EPA 1681

Sample analysis follows MWL MI 274 which is based on EPA 1681. A representative sample is obtained, combined with sterile buffers, and blended. The pH is adjusted, and the sample is aliquoted into fermentation tubes. The tubes are incubated for 22 hours and then checked for turbidity and gas production. Results are reported as most probable number per gram or mL (MPN/g or MPN/mL), which are calculated from the number of positive A-1 culture tubes and percent total solids.

E. coli MPN

Sample analysis follows MWL MI 212 which is based on FDA/BAM Chapter 4 using the most probable number (MPN) procedure. A representative sample is obtained and added to phosphate buffer. Aliquots of the sample are withdrawn, placed into EC with MUG broth and incubated for 48 hours. The tubes are checked for positive reactions (gas production and fluorescence). The results are reported as Most Probable Number.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**ORGANIC GROWING SOLUTIONS, LLC
ANDREW BASS
289 SW PARK STREET
MAYO FL 32066**

REPORT OF ANALYSIS

For: (35732) ORGANIC GROWING SOLUTIONS, LLC
Everlizer 3-3-3

Bulk Density

Method modified from USP <616> Method I

L mono PCR

Sample analysis follows MWL MI 276 which is based on Dupont BAX PCR and AOAC. A representative sample is obtained and added to Listeria Enrichment Media. The sample is incubated for 24 hours. After incubation, the sample is analyzed by PCR and Listeria monocytogenes is reported as negative or presumptive positive.

E coli O157:H7 - Lateral Flow

Samples are analyzed following MWL MI 171 which is based on the RapidChek HEC User Guide. A representative sample is obtained and combined with a selective media. It is incubated for 10 hours. After incubation, a test strip is used for HEC O157:H7 determination. Results are reported as negative or presumptive positive.

Vacuum Moisture

Analysis follows FO 02 or FD 018, both of which are based on AOAC 969.35. Samples are placed in aluminum tins and dried in a 60C or 70C vacuum oven (20-25 mm Hg) for 4 or 18 hours, with or without digest pure quartz sand. Loss in mass is reported as moisture.

AOAC 957.02 (P2O5 preparation)

Samples are treated with hydrochloric acid and nitric acid on a hot plate to destroy organic material and dissolve phosphate.

Fertilizer Prep AOAC 957.02

Samples are prepared using a combination of nitric acid and heat. The heating takes place in a block digester

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.