



Report for: Ag Choice, LLC 93 Stickles Pond Rd Newton NJ 07860	Additional copy to:
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Sample information

Lab ID:	Sample ID:	Sample type:	Feedstocks:	Sampled:	Received:	Reported:
C18208	March-April 2025	Finished compost	Leaves, Food waste, Woody material	3/31/25 2:45 PM NW	4/1/25 10:45 AM PA	4/14/25

COMPOST ANALYSIS REPORT

REFERENCE MATERIAL ONLY
Compost Test 34

Analyte	Results (As is basis)	Results (Dry weight basis)
pH	8.5	—
Soluble Salts (1:5 w:w)	0.94 mmhos/cm	—
Solids	70.1 %	—
Moisture	29.9 %	—
Organic Matter	12.1 %	17.3 %
Total Nitrogen (N)	0.5 %	0.7 %
Organic Nitrogen ¹	0.5 %	0.7 %
Ammonium N (NH ₄ -N)	389.7 mg/kg <i>or</i> 0.0390 %	556.1 mg/kg <i>or</i> 0.0556 %
Carbon (C)	7.6 %	10.9 %
Carbon:Nitrogen (C:N) Ratio	14.90	14.90
Phosphorus (as P ₂ O ₅) ²	0.20 %	0.28 %
Potassium (as K ₂ O) ²	0.22 %	0.32 %
Calcium (Ca)	3.54 %	5.04 %
Magnesium (Mg)	1.21 %	1.73 %
Particle size (< 9.5 mm)	—	100.0 %
Man Made Inerts		
<i>Plastic</i>	—	0.00 %
<i>Metal</i>	—	0.00 %
<i>Glass</i>	—	0.00 %
Total	—	0.00 %
Fecal Coliform ³	< 18 MPN per g	< 26 MPN per g

¹See comments on back of report .

²To convert phosphorus (as P₂O₅) into elemental phosphorus (P), divide by 2.29. To convert potassium (as K₂O) into elemental potassium (K), divide by 1.20.

³Fecal Coliform subcontracted to Pace Analytical Services Lab, Altoona, Pa

INTERPRETATION

pH	pH is a measure of active acidity in the feedstock or compost. The pH scale is 0 (acidic) to 14 (basic) with 7 being neutral. Most finished composts will have pH values in the range of 5.0 to 8.5. Ideal pH depends on compost use. A lower pH is preferred for certain ornamental plants while a neutral pH is suitable for most other applications. pH is not a measure of the total acidity or alkalinity and cannot be used to predict the effect of compost on soil pH.
Soluble Salts	Soluble salts are determined by measuring electrical conductivity (EC) in a 1:5 (compost:water, weight ratio) slurry. EC is related to the total soluble salts dissolved in the slurry and is measured in units of millimhos/cm (mmhos/cm). Compost soluble salt levels typically range from 1 to 10 mmhos/cm. High salinity may be toxic to plants. Ideal soluble salt levels will depend on the end use of the compost. Final compost blends with soil or container media/potting mixes should be tested for soluble salts.
% Solids, % Moisture	The ideal moisture content for composting will depend on the water holding capacity of the materials being composted. In general, high organic matter materials have a higher water holding capacity and a higher ideal moisture content. A typical starting compost mix will have an ideal % solids content of 35-55 % (65-45 % moisture). Finished compost should have a % solids content of 50-60 % (50-40 % moisture).
% Organic Matter	There is no ideal organic matter level for feedstocks or finished compost. Organic matter content will decrease during composting. The organic matter content (dry weight basis) of typical feedstocks and starting mixes will be greater than 60 % while that of finished compost will be in the range of 30-70 %. An organic matter content (dry weight basis) of 50-60 % is desirable for most compost uses.
Nitrogen : Total, Organic, Ammonium, and Nitrate	Total nitrogen (N) includes all forms of nitrogen: organic N, ammonium N ($\text{NH}_4\text{-N}$), and nitrate N ($\text{NO}_3\text{-N}$). Total N will normally range from less than 1 % to around 5 % (dry weight basis) in most feedstocks and from 0.5 to 2.5 % (dry weight basis) in finished composts. $\text{NO}_3\text{-N}$ (an optional test) is generally present in only low concentrations in immature composts, although it may increase as the compost matures. $\text{NH}_4\text{-N}$ levels may be high during initial stages of the composting process, but decrease as maturity increases. Organic N is determined by subtracting the inorganic N forms, $\text{NH}_4\text{-N}$ and $\text{NO}_3\text{-N}$, from total N. However, because $\text{NO}_3\text{-N}$ levels are generally very low, total nitrogen minus $\text{NH}_4\text{-N}$ provides a good estimate of organic N in most composts and is the value shown on the front of this report. In stable, finished composts, most of the N should be in the organic form. While $\text{NH}_4\text{-N}$ and $\text{NO}_3\text{-N}$ are immediately available to plants, organic N is only slowly available, approximately 10 to 20 % per year. However, mineralization or break-down of organic N into available inorganic forms depends on the C:N ratio (see below) as well as factors such as soil moisture and temperature.
Total Carbon	Total carbon (C) is a direct measurement of all organic and inorganic carbon in the compost sample. Unless the sample has a high pH (> 8.3) or is known to contain carbonates, essentially all carbon will be in the organic form. Compost organic matter typically contains around 54 % organic carbon by weight. The carbon content of individual feedstocks may vary from this ratio.
Carbon: Nitrogen Ratio	This is the ratio of total carbon (C) to total nitrogen (N) in the compost sample provided. C:N ratio may be used as an indicator of compost stability and N availability. Compost C:N ratio typically decreases during composting if the starting C:N ratio is > 25 , but may increase if the starting C:N ratio is low (< 15) and N is lost during the composting process. Composts with high C:N ratios (> 30) will likely immobilize or tie-up N if applied to soil, while those with low C:N ratios (< 20) will mineralize or break-down organic N to inorganic (plant-available) N.
Phosphorus, Potassium	Phosphorus (P) and potassium (K) are plant macronutrients. Values reported are for total amounts given in the oxide forms (P_2O_5 and K_2O). These results provide an indication of the nutrient value of the compost sample. However, plant availability of total phosphorus and potassium in compost has not yet been established.
Nitrogen, Phosphorus, Potassium Balance	When compost is applied on the basis of nitrogen (N), most composts will have an excess of phosphorus (P) and potassium (K) relative to crop demand. These mineral elements and salts can accumulate to above optimum levels with repeated application. Growers using compost should regularly soil test to monitor P, K and salt accumulation and should consider using other nutrient sources or nitrogen fixing legumes in their crop rotation especially when P and K levels are above optimum.



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COMPOST ANALYSIS REPORT

EPA 503 Pollutants

Analyte	Results (As is Basis)	Results (Dry Weight Basis)	EPA SW 846 Method
Arsenic (As)	3.2 mg/kg	4.5 mg/kg	3050B + 6010
Cadmium (Cd)	< 0.4 mg/kg	< 0.5 mg/kg	3050B + 6010
Copper (Cu)	13.3 mg/kg	19.0 mg/kg	3050B + 6010
Lead (Pb)	6.0 mg/kg	8.5 mg/kg	3050B + 6010
Mercury (Hg)	0.009 mg/kg	0.01 mg/kg	7473
Molybdenum (Mo)	< 1.1 mg/kg	< 1.6 mg/kg	3050B + 6010
Nickel (Ni)	8.0 mg/kg	11.4 mg/kg	3050B + 6010
Selenium (Se)	< 1.9 mg/kg	< 2.7 mg/kg	3050B + 6010
Zinc (Zn)	40.1 mg/kg	57.2 mg/kg	3050B + 6010

NOT TO BE USED AS PROOF OF PURCHASE

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COMPOST BIOASSAY

Seedling Emergence and Relative Growth

TEST PARAMETERS	
Test Dates:	04/04/2025 to 04/11/2025
Seed Type:	Cucumber-Marketmore 76 Variety
Media Type: (Control)	Miracle Gro Moisture Control
Vermiculite:	NK Professional Grade

TEST RESULTS	
Emergence: (% of control)	97
Seedling Vigor: (%):	100

COMMENTS

INTERPRETATION

The bioassay test provides a screen for the presence of phytotoxins in compost based on seedling emergence and seedling vigor relative to a control. It provides an assessment of compost maturity although should not be used as a stand-alone indicator. The U.S. Compost Council Test Methods for the Examination of Composting and Compost provides the following Maturity Indicator Ratings based on this test.

Test Parameter	Maturity Indicator Rating ¹		
	Very Mature	Mature	Immature
Emergence %	> 90	80-90	< 80
Seedling Vigor %	> 95	80-95	< 80

¹ Test Methods for the Examination of Composting and Composts (revised July 15, 2015)

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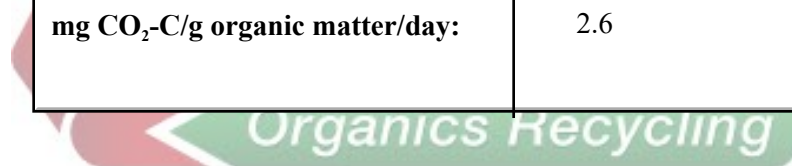
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RESPIROMETRY

Carbon Dioxide (CO₂) Evolution Rate

TEST RESULTS	
mg CO₂-C/g solids/day:	0.4
mg CO₂-C/g organic matter/day:	2.6



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INTERPRETATION

Respirometry (CO₂ evolution) provides a measurement of the relative microbial activity in a compost and can therefore be used as an estimate of compost stability. The interpretive index below assumes optimal conditions for microbial activity are present including temperature, moisture and nutrients, and that toxic components that would inhibit microbial respiration are absent.

Result ¹	Stability Rating ²	General Characteristics
< 1	Very stable	Well cured compost No continued decomposition No odors No potential for volatile fatty acid phytotoxicity
1-2	Stable	Moderately well cured compost Odor production not likely Limited potential for volatile fatty acid phytotoxicity Minimal to no impact on soil carbon and nitrogen dynamics
2-5	Moderately unstable, curing compost	Curing compost Odor production not likely Limited potential for volatile fatty acid phytotoxicity Minor impact on soil carbon & nitrogen dynamics
6-9	Unstable, raw compost	Active, uncured compost Minimal odor production Moderate to high potential for volatile fatty acid phytotoxicity Moderate potential for negative impact on soil carbon & nitrogen dynamics
10-11	Raw compost, raw organic products	Highly active, uncured compost Odor production likely High potential for volatile fatty acid phytotoxicity High potential for negative impact on soil carbon & soil nitrogen dynamics
>11	Raw feedstock, unstabilized material	Raw, extremely unstable material Odor production expected Probable volatile fatty acid phytotoxicity with most materials Negative impact on soil carbon & soil nitrogen dynamics expected

¹Units in mg CO₂-C/g organic matter/day

²Test Methods for the Examination of Composting and Composts (revised July 15, 2015)