



**US COMPOSTING COUNCIL**

*Seal of Testing Assurance*

**Texas Pure Products**

Sherrian Jones  
P.O. Box 860358  
Plano  
TX 75086-0358

Date Sampled/Received: 19 Jan. 23 / 25 Jan. 23

**Product Identification**

Compost

# COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076 tel: 831.724.5422 fax: 831.724.3188			
<i>Compost Parameters</i>	<i>Reported as (units of measure)</i>	<i>Test Results</i>	<i>Test Results</i>
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	56.2	
Organic Matter Content	%, dry weight basis	62.4	
pH	units	8.34	
Soluble Salts <i>(electrical conductivity EC<sub>5</sub>)</i>	dS/m (mmhos/cm)	1.7	
Particle Size or Sieve Size	maxium aggregate size, inches	0.38	
Stability Indicator ( <i>respirometry</i> )		<i>Stability Rating:</i>	
CO <sub>2</sub> Evolution	mg CO <sub>2</sub> -C/g OM/day	2.0	Very Stable
	mg CO <sub>2</sub> -C/g TS/day	1.2	
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	100.0	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	<i>Salmonella</i>
Trace Metals	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	<i>As,Cd,Cr,Cu,Pb,Hg</i> <i>Mo,Ni,Se,Zn</i>

**Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.**

Laboratory Group: Jan23D Laboratory Number: 3010433-1/1

Analyst: Assaf Sadeh

www.controllabs.com



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<i>Compost Parameters</i>	<i>Reported as (units of measure)</i>	<i>Test Results</i>	<i>Test Results</i>
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	0.78	1.8
Phosphorus	P <sub>2</sub> O <sub>5</sub>	0.20	0.45
Potassium	K <sub>2</sub> O	0.34	0.77
Calcium	Ca	2.5	5.7
Magnesium	Mg	0.11	0.24
Moisture Content	%, wet weight basis	56.2	
Organic Matter Content	%, dry weight basis	62.4	
pH	units	8.34	
Soluble Salts <i>(electrical conductivity EC<sub>5</sub>)</i>	dS/m (mmhos/cm)	1.7	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	100.0	
<i>Stability Indicator (respirometry)</i>		<i>Stability Rating:</i>	
CO <sub>2</sub> Evolution	mg CO <sub>2</sub> -C/g OM/day	2.0	Very Stable
	mg CO <sub>2</sub> -C/g TS/day	1.2	
<i>Maturity Indicator (bioassay)</i>			
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	100.0	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	<i>Salmonella</i>
Trace Metals	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3.		Pass

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Laboratory Group:

Jan23D

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3010433-1/1

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TX 75086-0358

**Product Identification:**

Compost

## COMPOST TECHNICAL DATA SHEET for Texas DOT

LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076 tel: 831.724.5422 fax: 831.724.3188

<i>Compost Parameters</i>	<i>Test Results</i>	<i>Reported as (units of measure)</i>	<i>TMECC Test Method</i>
Organic Matter Content	62.4	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)
pH	8.34	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts (electrical conductivity)	1.7	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis
Particle Size	100.0 100.0	%, dry weight passing through 5/8th inch screen and 3/8th inch screen	02.02-B Sample Sieving for Aggregate Size Classification
Stability Indicator (respirometry) CO2 Evolution	2.0	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evolution Rate
Maturity Indicator (bioassay) Percent Emergence	93.3	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	100.0	average % of control	05.05-A Germination and vigor
Select Pathogens (Salmonella)	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms 07.02-A Salmonella
Trace Metals	Pass	PASS/FAIL: Per US EPA Class A 40 CFR 503.13, tables 1 and 3.	04.06-Heavy Metals standard, and Hazardous Elements

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*For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at <http://www.tmecc.org>.*

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality, or suitability for any particular use.

Laboratory Group: Jan23D Laboratory Number: 3010433-1/1  
Analyst: Assaf Sadeh

www.controllabs.com

# SOIL CONTROL LAB

42 HANGAR WAY  
WATSONVILLE  
CALIFORNIA  
95076  
USA

Account #: 3010433-1/1-938  
Group: Jan23D #18  
Reporting Date: February 10, 2023

Texas Pure Products  
P.O. Box 860358  
Plano, TX 75086-0358  
Attn: Sherrian Jones

Date Received: 25 Jan. 23  
Sample Identification: Compost  
Sample ID #: 3010433 - 1/1

<b>Nutrients</b>				<b>Stability Indicator:</b>			
	Dry wt.	As Rcvd.	units	<b>CO2 Evolution</b>		Respirometry	
Total Nitrogen:	1.8	0.78	%	mg CO <sub>2</sub> -C/g OM/day		2.0	
Ammonia (NH <sub>4</sub> -N):	< 10	< 4.4	mg/kg	mg CO <sub>2</sub> -C/g TS/day		1.2	
Nitrate (NO <sub>3</sub> -N):	8.0	3.5	mg/kg	<i>Stability Rating</i>		<i>very stable</i>	
Org. Nitrogen (Org.-N):	1.8	0.78	%	<b>Maturity Indicator: Cucumber Bioassay</b>			
Phosphorus (as P <sub>2</sub> O <sub>5</sub> ):	0.45	0.20	%	Compost:Vermiculite (v:v)		1:2	
Phosphorus (P):	2000	860	mg/kg	Emergence (%)		93	
Potassium (as K <sub>2</sub> O):	0.78	0.34	%	Seedling Vigor (%)		100	
Potassium (K):	6400	2800	mg/kg	<i>Description of Plants</i>		<i>healthy</i>	
Calcium (Ca):	5.7	2.5	%	<b>Pathogens</b>			
Magnesium (Mg):	0.24	0.11	%	Fecal Coliform	3100	MPN/g	<i>fail</i>
Sulfate (SO <sub>4</sub> -S):	37	16	mg/kg	Salmonella	< 3	MPN/4g	<i>pass</i>
Boron (Total B):	37	16	mg/kg	Date Tested: 25 Jan. 23			
Moisture:	0	56.2	%	<b>Physical Contaminants**</b>			
Sodium (Na):	0.061	0.027	%			% by dry wt	
Chloride (Cl):	0.083	0.036	%	Total Plastic		< 0.1	
pH Value:	NA	8.34	unit	Film Plastic		< 0.1	
Bulk Density :	18	41	lb/cu ft	Glass		< 0.1	
Carbonates (CaCO <sub>3</sub> ):	140	59	lb/ton	Metal		< 0.1	
Conductivity (EC5):	1.7	NA	mmhos/cm	Sharps		ND	
Organic Matter:	62.4	27.3	%	Total		< 0.5	
Organic Carbon:	31.0	14.0	%	<b>Size Distribution</b>			
Ash:	37.6	16.5	%	MM	% by weight		
C/N Ratio	17	17	ratio	> 50	0.0		
AgIndex	> 10	> 10	ratio	25 to 50	0.0		
<b>Metals</b>				16 to 25	0.0		
Aluminum (Al):	2700	-	mg/kg	9.5 to 16	0.0		
Arsenic (As):	4.4	41	mg/kg	6.3 to 9.5	0.3		
Cadmium (Cd):	< 1.0	39	mg/kg	4.0 to 6.3	2.7		
Chromium (Cr):	11	-	mg/kg	2.0 to 4.0	13.3		
Cobalt (Co)	2.2	-	mg/kg	< 2.0	83.6		
Copper (Cu):	42	1500	mg/kg	**Greater than 4mm in size (Sharps greater than 2mm)			
Iron (Fe):	4400	-	mg/kg				
Lead (Pb):	6.3	300	mg/kg				
Manganese (Mn):	250	-	mg/kg				
Mercury (Hg):	< 1.0	17	mg/kg				
Molybdenum (Mo):	0.98	75	mg/kg				
Nickel (Ni):	6.6	420	mg/kg				
Selenium (Se):	< 1.0	100	mg/kg				
Zinc (Zn):	86	2800	mg/kg				

Analyst: Assaf Sadeh



\*Sample was received and handled in accordance with TMECC procedures.

Account No.:  
3010433 - 1/1 - 938  
Group: Jan23D No. 18

Date Received: 25 Jan. 23  
Sample i.d.: Compost  
Sample I.d. No.: 1/1 3010433

**INTERPRETATION:**

**Is Your Compost Stable?**

Respiration Rate  
2.0 mg CO<sub>2</sub>-C/  
g OM/day

+++++++
< Stable > < Moderately Unstable > < Unstable > < High For Mulch

**Is Your Compost Mature?**

Ammonia/Nitrate N ratio  
NA Ratio

Ratio does not apply due to low concentrations of both Ammonia N and Nitrate N.
VeryMature> < Mature > < Immature

Ammonia N ppm  
<10 mg/kg  
dry wt.

+
VeryMature> < Mature > < Immature

Nitrate N ppm  
8.0 mg/kg  
dry wt.

+++++++
< Immature > < Mature

Cucumber Emergence  
93.3 percent

+++++++
< Immature > < Mature

**Is Your Compost Safe Regarding Health?**

Fecal Coliform  
> 1000 MPN/g dry wt.

+++++++
< Safe > < High Fecal Coliform

Salmonella  
Less than 3 /4g dry wt.

+++++++
<Safe (none detected) > < High Salmonella Count(> 3 per 4 grams)

Metals US EPA 503  
Pass dry wt.

+++++++
<All Metals Pass > < One or more Metals Fail

**Does Your Compost Provide Nutrients or Organic Matter?**

Nutrients (N+P<sub>2</sub>O<sub>5</sub>+K<sub>2</sub>O)  
3.0 Percent  
dry wt.

+++++++
<Low > < Average > < High Nutrient Content

AgIndex (Nutrients / Sodium and Chloride Salts)  $((N+P_2O_5+K_2O) / (Na + Cl))$   
15 Ratio

+++++++
Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider

Plant Available Nitrogen (PAN) Estimated release for first season  
2 lbs/ton  
wet wt.

+++++++
Low Nitrogen Provider> < Average Nitrogen Provider > <High Nitrogen Provider

C/N Ratio  
17 Ratio

+++++++
< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand

Soluble Available Nutrients & Salts (EC<sub>5</sub> w/w dw)  
1.7 mmhos/cm  
dry wt.

+++++++
SloRelease> < Average Nutrient Release Rate > <High Available Nutrients

Lime Content (CaCO<sub>3</sub>)  
140 Lbs/ton  
dry wt.

+++++++
< Low > < Average > < High Lime Content (as CaCO <sub>3</sub> )

**What are the physical properties of your compost?**

Percent Ash  
37.6 Percent  
dry wt.

+++++++
< High Organic Matter > < Average > < High Ash Content

Sieve Size % > 6.3 MM (0.25")  
0.3 Percent  
dry wt.

++
All Uses > < Size May Restrict Uses for Potting mix and Golf Courses

Account No.:  
3010433 - 1/1 - 938  
Group: Jan23D No. 18

Date Received 25 Jan. 23  
Sample i.d. Compost  
Sample I.d. No. 1/1 3010433

**INTERPRETATION:**

Page two of three

***Is Your Compost Stable?***

**Respiration Rate**

2.0 Low: Good for all uses mg CO<sub>2</sub>-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO<sub>2</sub> is released under optimized moisture and temperature conditions.

***Is Your Compost Mature?***

**Ammonia:Nitrate N ratio**

NA NA\*

**Ammonia N ppm**

<10 NA

**Nitrate N ppm**

8.0 immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

\*Ratio does not apply due to low concentrations of both Ammonia N and Nitrate N.

**Cucumber Bioassay**

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

***Is Your Compost Safe Regarding Health?***

**Fecal Coliform**

> 1000 / g dry wt.

Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all other pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

**Salmonella Bacteria**

Less than 3 / 4g dry wt.

Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

**Metals**

Pass

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

***Does Your Compost Provide Nutrients or Organic Matter?***

**Nutrients (N+P<sub>2</sub>O<sub>5</sub>+K<sub>2</sub>O)**

3.0 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

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3010433 - 1/1 - 938  
Group: Jan23D No. 18

Date Received: 25 Jan. 23  
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Sample I.d. No.: 1/1 3010433

**INTERPRETATION:**

**AgIndex (Nutrients/Na+Cl)**

15 High nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients from another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

**Plant Available Nitrogen (lbs/ton)**

2 Low N Provider

Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

**C/N Ratio**

17 Indicates immaturity

As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controllable.

**Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)**

1.7 Average salts

This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of the sodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

**Lime Content (lbs. per ton)**

140 High lime content

Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

**Physical Properties**

**Percent Ash**

37.6 Average ash content

Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess mineralization (old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

**Particle Size % > 6.3 MM (0.25")**

0.3 Suitable for all uses

Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	
Plant Available Nitrogen (PAN) calculations:	Estimated available nutrients for use when calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))	lbs/ton (As Rcvd.)
X value =	
If RR < 2 then X = 0.1	Plant Available Nitrogen (PAN) 1.6
If RR =2.1 to 5 then X = 0.2	Ammonia (NH4-N) 0.00
If RR =5.1 to 10 then X = 0.3	Nitrate (NO3-N) 0.01
If RR > 10 then X = 0.4	Available Phosphorus (P2O5*0.64) 2.5
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O) 6.7
RR = Respiration rate	