Midwest Laboratories®

COMPOST TESTING

Since 1975, Midwest Laboratories has been dedicated to providing industry-leading, reliable and traceable analysis services. Midwest laboratories is an **USCC approved Laboratory**, supporting organic food waste, compost remediation, erosion control, and waste reduction.

US Composting Council®
APPROVED LABORATORY

MOST REQUESTED PACKAGES:	Required Sample Size	Turnaround Time	Price
COMPOST PACKAGE	200g	5 - 7 BD	**$85.00**

Nitrogen, Ammonium Nitrate-Nitrogen, Organic Nitrogen, Phosphate, Potash, Boron, Calcium, Copper, Iron, Magnesium, Manganese, Sodium, Sulfur, Zinc, Chloride, Carbon, C/N Ratio, Conductivity(Soluble Salts), Moisture/Total Solids, Organic Matter, Ash, pH

SEAL OF TESTING ASSURANCE COMPOST COUNCIL PACKAGE	1 gal resealable bag (full) or 3 pounds	15 - 20 BD	**$410.00**

Nitrogen, Ammonium Nitrogen, Organic Nitrogen, Nitrate Nitrogen, Phosphate, Potash, Boron, Calcium, Iron, Magnesium, Manganese, Sodium, Sulfur, Zinc, Chloride, Carbon, C/N Ratio, Conductivity, Moisture/ Total Solids, Organic Matter, Ash, pH, Germination, CO_2 Evolution, Bulk Density, Man-Made Inerts, Particle Size, Nutrient Index, Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Fecal Coliform, Salmonella

W2 - IRRIGATION SUITABILITY	(2) 250mL	7 - 9 BD	**$76.50**

Sodium, Chloride, Phosphorus, Calcium, Conductivity, Potassium, Magnesium, Sulfate, Boron, Iron, Nitrate Nitrogen, SAR, Copper, pH, Total Dissolved Solids(by calculation), Manganese, Carbonate, Zinc, Bicarbonate

LAGOON WATER PACKAGE Δ	500mL	7 - 9 BD	**$48.00**

Nitrogen, Ammoniacal Nitrogen, Organic Nitrogen, Phosphate, Potash, Calcium, Copper, Iron, Magnesium, Manganese, Sodium, Sulfur, Zinc, Conductivity, pH

MOST REQUESTED PACKAGES:	Required Sample Size	Turnaround Time	Price
HEAVY METALS SCREEN	50g	7 - 9 BD	**$154.00**

For Canadian Registrations. Arsenic, Cadmium, Cobalt, Copper, Chromium, Lead, Mercury, Molybdenum, Nickel, Selenium, Zinc

C/N RATIO	100g	5 - 7 BD	**$44.00**

Carbon (total), Nitrogen (total), C/N Ratio, Moisture, pH

GERMINATION ANALYSIS	50g	14 D	**$44.00**

Germination and Vigor

E. COLI (MPN)	100g	2 - 4 D	**$30.00**
FECAL COLIFORM (EPA 1681)* †	Solid: 100g Liquid: 1L	2 D	**$35.00**
SALMONELLA (EPA 1682)* †	Solid: 100g Liquid: 1L	5 D	**$135.00**
SALMONELLA (TMECC) †	Solid: 100g	5 D	**$82.50**

Δ **CAUTION!** Many manures and sludges are biologically active and will produce gases even after being sealed in a container. These gases produce pressure that can burst the container or pop its lid. Precautions should be taken in shipping manure or sludge samples: Never use a glass container and always tape the lid.

* Lime Stabilized Sludge for EPA 1681 and EPA 1682 requires additional preparation steps. A preparation fee of $8 will be added per sample.

† Additional moisture test or %solids required, fee of $11 will be added per sample.

Have questions? Contact a Specialist:

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Visit mylab.midwestlabs.com for sampling supplies or questions.

Or contact us at midwestlabs.com | 402.334.7770 | contactus@midwestlabs.com

YOUR RESULTS

Analysis	Level Found As Received	Level Found Dry Weight	Units	Reporting Limit	Method	Analyst-Date	Verified-Date
Phosphate (P2O5)	n.d.	n.d.	%	0.10	MWL ME PROC 26	Auto-2022/04/19	eas2-2022/04/19
Potash (K2O)	0.53	1.99	%	0.05	MWL ME PROC 26	Auto-2022/04/19	eas2-2022/04/19
Nitrate-nitrogen	n.d.	n.d.	%	0.01	WC PROC 32	Rpk5-2022/04/18	eas2-2022/04/19
Ammonium nitrogen (total)	n.d.	n.d.	%	0.001	AOAC 920.03 (mod)	krg0-2022/04/18	eas2-2022/04/19
Humic acid	n.d.		%	0.10	Calif HA4/JC (rev. 2:3-11-09)	jed2-2022/04/21	eas2-2022/04/21
Carbon (total)	0.880	3.300	%	0.050	ASTM D 5373 (mod)	mdh0-2022/04/25	tat9-2022/04/25
Sulfur (total)	n.d.	n.d.	%	0.05	MWL ME PROC 26	trh1-2022/04/18	eas2-2022/04/19
Calcium (total)	5.02	18.8	%	0.01	MWL ME PROC 26	trh1-2022/04/18	eas2-2022/04/19
Magnesium (total)	0.22	0.82	%	0.01	MWL ME PROC 26	trh1-2022/04/18	eas2-2022/04/19
Sodium (total)	0.40	1.50	%	0.01	MWL ME PROC 26	trh1-2022/04/18	eas2-2022/04/19
Iron (total)	n.d.	n.d.	ppm	50.0	MWL ME PROC 26	trh1-2022/04/18	eas2-2022/04/19
Boron (total)	6190	23200	mg/kg	5.00	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Manganese (total)	n.d.	n.d.	ppm	20.0	MWL ME PROC 26	trh1-2022/04/18	eas2-2022/04/19
Arsenic (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Cadmium (total)	n.d.	n.d.	mg/kg	0.50	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Cobalt (total)	n.d.	n.d.	mg/kg	1.00	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Chromium (total)	n.d.	n.d.	mg/kg	1.00	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Lead (total)	n.d.	n.d.	mg/kg	5.0	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Mercury (total)	n.d.	n.d.	mg/kg	0.05	EPA 7471	mrs3-2022/04/21	trh1-2022/04/21
Molybdenum (total)	879	3300	mg/kg	1.0	EPA 6010	ery3-2022/04/20	trh1-2022/04/21
Nickel (total)	n.d.	n.d.	mg/kg	1.0	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Selenium (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Zinc (total)	n.d.	n.d.	mg/kg	2.0	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Copper (total)	n.d.	n.d.	mg/kg	1.0	EPA 6010	ery3-2022/04/18	trh1-2022/04/21
Percent solids	26.67		%	0.01	SM 2540 G-(1997) *	Mmg9-2022/04/18	mgn8-2022/04/19
Chloride	9.18	34.4	%	0.01	Soil Sci. & Plant Anal. 1970	eas2-2022/04/22	tat9-2022/04/25
Total Kjeldahl nitrogen (TKN)	n.d.		%	0.01	AOAC 2001.11	krg0-2022/04/18	eas2-2022/04/19
Moisture	73.33		%	0.10	SM 2540 G-(1997)	Mmg9-2022/04/18	eas2-2022/04/19
Salmonella	n.d.	n.d.	MPN/4g	0.26	EPA 1682	Ljm8-2022/04/21	jzh4-2022/04/21
Fecal coliforms	n.d.	n.d.	MPN/g	0.2	EPA 1681	Ljm8-2022/04/16	jzh4-2022/04/18
E. coli (generic)	< 3.0		MPN/g	3.6	E. coli MPN	Jcp2-2022/04/17	jzh4-2022/04/18
Water insoluble nitrogen (WIN)	n.d.		%	0.01	AOAC 945.01/2001.11	krg0-2022/04/18	eas2-2022/04/19
Water soluble nitrogen	n.d.		%	0.01	Calculation	Auto-2022/04/18	Auto-2022/04/25
pH	2.33		S.U.	0.01	EPA 9045	jsa6-2022/04/18	eas2-2022/04/19
Bulk density (loose)	1.17		g/cm³	0.01	WC 069	Rpk5-2022/04/18	eas2-2022/04/19

		Analysis (as rec'd)	Analysis (dry weight)	Total content, lbs per ton (as rec'd)
NUTRIENTS				
Nitrogen				
Total Nitrogen	%	0.78	1.86	15.6
Organic Nitrogen	%	0.72	1.71	14.4
Ammonium Nitrogen	%	0.030	0.071	0.6
Nitrate Nitrogen	%	0.03	0.07	0.6
Major and Secondary Nutrients				
Phosphorus	%	0.44	1.05	8.8
Phosphorus as P2O5	%	1.01	2.40	20.2
Potassium	%	0.11	0.26	2.2
Potassium as K2O	%	0.13	0.31	2.6
Sulfur	%	0.22	0.52	4.4
Calcium	%	0.60	1.43	12.0
Magnesium	%	0.07	0.17	1.4
Sodium	%	0.030	0.071	0.6
Micronutrients				
Iron	ppm	5540	13184	11.1
Manganese	ppm	320	762	0.6
Boron	ppm	< 100	---	---
OTHER PROPERTIES				
Moisture	%	57.98		
Total Solids	%	42.02		840.4
Organic Matter	%	20.80	49.50	416.0
Ash	%	21.20	50.45	424.0
Total Carbon	%	10.59	25.20	
Chloride	%	0.02	0.05	
pH		5.8		
Conductivity 1:5 (Soluble Salts)	mS/cm	3.15		

	Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	Method
Biological Properties					
Germination	90		%	1	TMECC 05.05A
Germination Vigor	90		%	1	TMECC 05.05A
CO_2 OM Evolution	0.22		mgCO2-C/gOM/day	0.01	TMECC 05.08B
CO_2 Solids Evolution	0.4		mgCO2-C/gTS/day	0.01	TMECC 05.08B
Fecal Coliform		238	mpn/g	0.2	EPA 1681
Salmonella		< 0.01	mpn/4g	1.2	TMECC 7.02
Stability Rating	Stable		N/A	N/A	TMECC 05.08B
Physical Properties					
Bulk Density (Loose)	792		lbs/cu yard	1	WT/VOL
Bulk Density (Packed)	1230		lbs/cu yard	1	WT/VOL
Film Plastics	n.d.		%	0.25	Microscopic
Glass Fragments	n.d.		%	0.25	Microscopic
Hard Plastics	n.d.		%	0.25	Microscopic
Metal Fragment	n.d.		%	0.25	Microscopic

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