



Midwest Laboratories Inc.®

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REPORT OF ANALYSIS

For: (27198) MIDWEST RESEARCH
(816)360-1931

PO/Proj. #: 123687
BUTLER

This report supersedes all prior reports for the following reason(s): NAME

Report Number
11-299-2027 v3

Mail to: MIDWEST RESEARCH
GREG KARR
425 VOLKER BLVD
KANSAS CITY MO 64110

Date Reported: 02/20/12
Date Received: 10/18/11
Date Sampled: 10/17/11
Time Sampled: Not Supplied

Lab number: 1912887 Sample ID: N2PK ORGRAN 3-8-5

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
Fecal coliform (dry weight)	n.d.	mpn/g	2	EPA 1681	sjb-10/20	kej-10/21
E. coli (MPN)	n.d.	mpn/g	0.3	FDA/BAM 8TH ED. CHAPTER 4	arj-10/20	kej-10/21
Salmonella	n.d.	mpn/4 g	0.01	EPA 1682	sjb-10/21	kej-10/21
Total Kjeldahl Nitrogen	2.90	%	0.01	AOAC 2001.11	mjs-10/24	mjs-10/26
Phosphate Total (P205)	8.34	%	0.10	AOAC 16E 957.02E/ICP	trh-10/20	mjs-10/26
Potash (K2O)	5.55	%	0.10	AOAC 16 ED 957.02E/ICP	trh-10/20	mjs-10/26
Nitrate Nitrogen (N)	n.d.	%	0.01	AOAC15ED955.04(C)	mjs-10/24	mjs-10/26
Water Soluble Nitrogen	0.50	%	0.01	CALCULATED	mjs-10/24	mjs-10/26
Water Insoluble Nitrogen (WIN)	2.40	%	0.01	AOAC 15ED 945.01	mjs-10/24	mjs-10/26
Ammoniacal Nitrogen (N)	0.037	%	0.001	AOAC 15TH 920.03	mjs-10/24	mjs-10/26
Humic Acid	0.78	%	0.10	CALIF 4A 4/JC	mjs-10/24	mjs-10/26
pH	6.84	SU		PH METER	mjs-10/25	mjs-10/26
Total Carbon	33.14	%	0.050	C ANALYZER	mjs-10/24	mjs-10/26
Bulk Density (packed)	0.87	g/cc	0.01	WT/VOL	mjs-10/24	mjs-10/26
Sulfur	0.83	%	0.05	ICAP	trh-10/19	mjs-10/26
Calcium	12.80	%	0.01	ICAP	trh-10/19	mjs-10/26
Boron (total)	56.66	%	0.01	ICAP	cjm-10/21	bab-10/24
Iron (Fe)	3,370	ppm	50.0	ICAP	trh-10/19	mjs-10/26
Manganese	903	ppm	20.0	ICAP	trh-10/19	mjs-10/26
Sodium	0.64	%	0.01	ICAP	trh-10/19	mjs-10/26
Arsenic (total)	n.d.	ppm	10.0	ICAP	cjm-10/21	bab-10/24
Cadmium (total)	0.63	ppm	0.50	ICAP	cjm-10/21	bab-10/24
Chromium (total)	55.0	ppm	1.00	ICAP	cjm-10/21	bab-10/24



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Cobalt (total)	2.58	ppm	1.00	ICAP	cjm-10/21	bab-10/24
Lead (total)	n.d.	ppm	5.0	ICAP	cjm-10/21	bab-10/24
Mercury (total)	n.d.	ppm	0.05	COLD VAPOR	cjm-10/21	bab-10/24
Molybdenum (total)	20.5	ppm	1.00	ICAP	cjm-10/21	bab-10/24
Nickel (total)	30	ppm	1.0	ICAP	cjm-10/21	bab-10/24
Selenium (total)	n.d.	ppm	10.0	ICAP	cjm-10/21	bab-10/24
Zinc (total)	1,087	%	0.01	ICAP	cjm-10/21	bab-10/24
Copper (total)	180	%	0.01	ICAP	cjm-10/21	bab-10/24
Percent solids	98.05	%	0.01	SM 2540 G	jsa-10/24	cmw-10/25

Notes:

- n.d. - Not Detected.
- AOAC - Association of Official Analytical Chemists.
- ICAP - Inductively Coupled Argon Plasma.

For questions contact

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Client Service Representative
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