

**CALCIUM PRODUCTS INC
2520 N LOOP DR STE 7100
AMES IA 50010-8279**

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
EL ROSE

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: AG LIME Lab Number: 2443893						
Moisture	4.2	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/18
Calcium (total)	17.5	%	0.01	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Magnesium (total)	9.79	%	0.01	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Total neutralizing value (CaCO3 eq)	90.7	%	0.1	AOAC 955.01 *	acm2-2015/09/16	mgn8-2015/09/18
ECCE	56.9	%	0.1	Calculation *	Auto-2015/09/16	Auto-2015/09/18
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 8 sieve	85.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 60 sieve	45.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
Boron (total)	n.d.	ppm	20	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Sulfur (total)	n.d.	%	0.05	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Phosphorus (total)	n.d.	%	0.05	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Potassium (total)	0.10	%	0.05	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Sodium (total)	0.02	%	0.01	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Iron (total)	6910	ppm	50.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Manganese (total)	731	ppm	20.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Zinc (total)	25.3	ppm	20.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Copper (total)	n.d.	ppm	20.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Mercury (total)	n.d.	mg/kg	0.05	EPA 7471 *	ccm2-2015/09/17	kkh9-2015/09/18
Zinc (total)	16.8	mg/kg	2.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18

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For: (7294) CALCIUM PRODUCTS INC
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Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: AG LIME	Lab Number: 2443893 (con't)					
Selenium (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Lead (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Nickel (total)	1.7	mg/kg	1.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Molybdenum (total)	n.d.	mg/kg	1.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Cobalt (total)	n.d.	mg/kg	1.00	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Arsenic (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
% passing 20 sieve	61.5	%	0.1	ASTM D 422 *	eas2-2015/09/16	mgn8-2015/09/18
% passing 30 sieve	56.9	%	0.1	ASTM D 422 *	eas2-2015/09/16	mgn8-2015/09/18
% passing 80 sieve	39.6	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 100 sieve	36.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 200 sieve	25.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
Aluminum (total)	0.08	%	0.01	MWL ME PROC 26 *	mgn8-2015/09/23	mgn8-2015/09/23
Sample ID: BEET LIME	Lab Number: 2443894					
Moisture	20.5	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/18
Calcium (total)	20.7	%	0.01	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Magnesium (total)	0.90	%	0.01	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Total neutralizing value (CaCO ₃ eq)	52.5	%	0.1	AOAC 955.01 *	acm2-2015/09/16	mgn8-2015/09/18
ECCE	47.7	%	0.1	Calculation *	Auto-2015/09/16	Auto-2015/09/18

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**For: (7294) CALCIUM PRODUCTS INC
EL ROSE**

Analysis	Level Found		Reporting		Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
Sample ID: BEET LIME	Lab Number: 2443894 (con't)					
% passing 4 sieve	99.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 8 sieve	98.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 60 sieve	85.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
Boron (total)	38	ppm	20	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Sulfur (total)	0.34	%	0.05	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Phosphorus (total)	0.33	%	0.05	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Potassium (total)	0.19	%	0.05	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Sodium (total)	0.05	%	0.01	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Iron (total)	4570	ppm	50.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Manganese (total)	253	ppm	20.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Zinc (total)	59.3	ppm	20.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Copper (total)	27.4	ppm	20.0	MWL ME PROC 26 *	cvs7-2015/09/17	mgn8-2015/09/18
Mercury (total)	n.d.	mg/kg	0.05	EPA 7471 *	ccm2-2015/09/17	kkh9-2015/09/18
Zinc (total)	39.7	mg/kg	2.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Selenium (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Lead (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Nickel (total)	5.6	mg/kg	1.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Molybdenum (total)	n.d.	mg/kg	1.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Cobalt (total)	1.55	mg/kg	1.00	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18

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	As Received		Limit	Method		
Sample ID: BEET LIME	Lab Number: 2443894 (con't)					
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
Arsenic (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/09/16	kkh9-2015/09/18
% passing 20 sieve	91.8	%	0.1	ASTM D 422 *	eas2-2015/09/16	mgn8-2015/09/18
% passing 30 sieve	90.9	%	0.1	ASTM D 422 *	eas2-2015/09/16	mgn8-2015/09/18
% passing 80 sieve	85.3	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 100 sieve	84.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
% passing 200 sieve	81.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/16	mgn8-2015/09/18
Aluminum (total)	0.42	%	0.01	MWL ME PROC 26 *	mgn8-2015/09/23	mgn8-2015/09/23

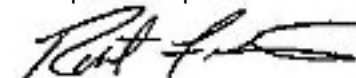
Sample(s) was prepared for EPA 6010 analysis by EPA 3050b.

This report was reissued on 2015-09-23 09:30:02 by mgn8 for the following reason:

Aluminum added on.

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:



Rob Ferris
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**CALCIUM PRODUCTS INC
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AMES IA 50010-8279****REPORT OF ANALYSIS**For: (7294) CALCIUM PRODUCTS INC
EL ROSE**Detailed Method Description(s)****SM 2540 G**

Analysis follows MWL WC 060 which is based on SM 2540 G. A sample is weighed placed in a vacuum drying oven to drive off the moisture and re-weighed. The sample is then placed in a muffle furnace at 550°C, cooled, and re-weighed. The residue remaining is the ash and the mass lost is the volatile matter.

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 which is based on AOAC 957.02 using mineral acids and heat. 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

AOAC 955.01

Analysis follows MWL WC 039 which is based on AOAC 955.01. A sample is treated with an excess of acid and then back-titrated with a known base to a phenolphthalein end point

Calculation

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

Wet Sieve

Sample analysis follows MWL WC 070 which is based on ASTM E 276. A known mass of a solid is obtained and a pre-determined set of sieves obtained. The sample is placed on the upper most (largest screen size) and the sample washed with water to wash the materials through the sieves. The material retained on the individual sieves is removed and weighed and the percent of the total passing through the sieve is calculated and reported.

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.

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REPORT NUMBER

15-261-4032 v2

REPORT DATE
Sep 23, 2015

RECEIVED DATE
Sep 15, 2015

SEND TO
7294



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ISSUE DATE
Sep 23, 2015

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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.

ROTAP 2 MIN

Sample analysis follows MWL PR 093 which is based on ASTM D 422. A known mass of sample is placed on one or more sets of standard sieves and the stack shaken for an established period of time. After shaking, the material retained on a specific sieve is weighed. The result can be reported as the amount retained on a sieve or passing through a sieve.

Fertilizer Prep AOAC 957.02

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

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