

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
LIME ANALYSIS

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: AGL00615 Lab Number: 2443724						
Moisture	36.8	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/15	mgn8-2015/09/22
Calcium (total)	18.4	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Magnesium (total)	3.18	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Total neutralizing value (CaCO3 eq)	53.5	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22
ECCE	50.1	%	0.1	Calculation *	Auto-2015/09/17	Auto-2015/09/22
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 8 sieve	99.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 60 sieve	89.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 20 sieve	97.3	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22
% passing 30 sieve	95.5	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22
% passing 80 sieve	87.5	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 100 sieve	87.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 200 sieve	82.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
Sample ID: AGL00715 Lab Number: 2443725						
Moisture	5.1	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/15	mgn8-2015/09/22
Calcium (total)	37.6	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Magnesium (total)	0.18	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Total neutralizing value (CaCO3 eq)	93.8	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22
ECCE	63.7	%	0.1	Calculation *	Auto-2015/09/17	Auto-2015/09/22

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Sample ID: AGL00715	Lab Number: 2443725 (con't)					
% passing 4 sieve	99.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 8 sieve	95.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 60 sieve	48.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 20 sieve	80.6	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22
% passing 30 sieve	68.8	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22
% passing 80 sieve	45.2	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 100 sieve	43.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 200 sieve	34.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
Sample ID: AGL00815	Lab Number: 2443726					
Moisture	2.9	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/22
Calcium (total)	37.7	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Magnesium (total)	0.17	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Total neutralizing value (CaCO3 eq)	96.6	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22
ECCE	66.3	%	0.1	Calculation *	Auto-2015/09/17	Auto-2015/09/22
% passing 4 sieve	98.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 8 sieve	92.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 60 sieve	51.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22
% passing 20 sieve	75.6	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22
% passing 30 sieve	68.7	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22

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	As Received	Units	Limit	Method			
Sample ID: AGL00815	Lab Number: 2443726 (con't)						
% passing 80 sieve	45.3	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 100 sieve	42.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 200 sieve	32.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
Sample ID: AGL00915	Lab Number: 2443727						
Moisture	10.6	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/22	
Calcium (total)	22.1	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22	
Magnesium (total)	1.45	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22	
Total neutralizing value (CaCO3 eq)	56.4	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22	
ECCE	41.3	%	0.1	Calculation *	Auto-2015/09/17	Auto-2015/09/22	
% passing 4 sieve	99.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 8 sieve	99.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 60 sieve	55.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 20 sieve	78.4	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 30 sieve	69.9	%	0.1	ASTM D 422 *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 80 sieve	53.5	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 100 sieve	52.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	
% passing 200 sieve	47.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/17	mgn8-2015/09/22	

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Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: AGL01015 Lab Number: 2443728						
Moisture	6.5	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/22
Calcium (total)	24.0	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Magnesium (total)	1.44	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Total neutralizing value (CaCO ₃ eq)	62.5	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22
ECCE	40.4	%	0.1	Calculation *	Auto-2015/09/18	Auto-2015/09/22
% passing 4 sieve	99.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 8 sieve	97.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 60 sieve	42.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 20 sieve	70.3	%	0.1	ASTM D 422 *	eas2-2015/09/18	mgn8-2015/09/22
% passing 30 sieve	57.9	%	0.1	ASTM D 422 *	eas2-2015/09/18	mgn8-2015/09/22
% passing 80 sieve	39.2	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 100 sieve	38.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 200 sieve	34.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
Sample ID: UNICAL P Lab Number: 2443729						
Moisture	n.d.	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/22
Calcium (total)	38.6	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Magnesium (total)	0.12	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Total neutralizing value (CaCO ₃ eq)	96.4	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22
ECCE	95.7	%	0.1	Calculation *	Auto-2015/09/18	Auto-2015/09/22

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Sample ID: UNICAL P	Lab Number: 2443729 (con't)					
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 8 sieve	99.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 60 sieve	98.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 20 sieve	99.8	%	0.1	ASTM D 422 *	eas2-2015/09/18	mgn8-2015/09/22
% passing 30 sieve	99.5	%	0.1	ASTM D 422 *	eas2-2015/09/18	mgn8-2015/09/22
% passing 80 sieve	96.5	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 100 sieve	94.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 200 sieve	72.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
Sample ID: ALDEN 98G	Lab Number: 2443730					
Moisture	0.4	%	0.1	SM 2540 G-(1997) *	bjs0-2015/09/16	mgn8-2015/09/22
Calcium (total)	36.2	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Magnesium (total)	0.12	%	0.01	MWL ME PROC 26 *	trh1-2015/09/21	mgn8-2015/09/22
Total neutralizing value (CaCO ₃ eq)	92.6	%	0.1	AOAC 955.01 *	eas2-2015/09/15	mgn8-2015/09/22
ECCE	92.4	%	0.1	Calculation *	Auto-2015/09/18	Auto-2015/09/22
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 60 sieve	99.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 20 sieve	100	%	0.1	ASTM D 422 *	eas2-2015/09/18	mgn8-2015/09/22
% passing 30 sieve	100	%	0.1	ASTM D 422 *	eas2-2015/09/18	mgn8-2015/09/22

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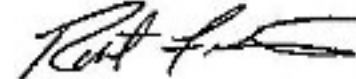
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LIME ANALYSIS

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: ALDEN 98G	Lab Number: 2443730 (con't)					
% passing 80 sieve	98.3	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 100 sieve	96.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22
% passing 200 sieve	85.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/09/18	mgn8-2015/09/22

All results are reported on an AS RECEIVED basis., n.d. = not detected

For questions please contact:


Rob Ferris
Account Manager
rob.ferris@midwestlabs.com (402)829-9871

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**CALCIUM PRODUCTS INC
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AMES IA 50010-8279****REPORT OF ANALYSIS**For: (7294) CALCIUM PRODUCTS INC
LIME ANALYSIS**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.

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.

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REPORT NUMBER

15-265-4183

REPORT DATE
Sep 22, 2015

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Sep 14, 2015

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7294



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Sep 22, 2015

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For: (7294) CALCIUM PRODUCTS INC
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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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