

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
LIME ANALYSIS
P26183

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: AGL00316 Lab Number: 2493321						
Moisture	2.9	%	0.1	SM 2540 G-(1997) *	bjs0-2016/02/16	mgn8-2016/02/18
Calcium (total)	33.4	%	0.01	MWL ME PROC 26 *	cvs7-2016/02/17	mgn8-2016/02/18
Magnesium (total)	0.60	%	0.01	MWL ME PROC 26 *	cvs7-2016/02/17	mgn8-2016/02/18
Total neutralizing value (CaCO3 eq)	85.7	%	0.1	AOAC 955.01 *	acm2-2016/02/16	mgn8-2016/02/18
ECCE	47.2	%	0.1	Calculation *	Auto-2016/02/16	Auto-2016/02/18
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 8 sieve	84.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 60 sieve	33.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 30 sieve	43.9	%	0.1	ASTM D 422 *	eas2-2016/02/16	mgn8-2016/02/18
% passing 100 sieve	29.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 200 sieve	24.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
Sample ID: AGL00416 Lab Number: 2493322						
Moisture	3.0	%	0.1	SM 2540 G-(1997) *	bjs0-2016/02/16	mgn8-2016/02/18
Calcium (total)	20.1	%	0.01	MWL ME PROC 26 *	cvs7-2016/02/17	mgn8-2016/02/18
Magnesium (total)	12.1	%	0.01	MWL ME PROC 26 *	cvs7-2016/02/17	mgn8-2016/02/18
Total neutralizing value (CaCO3 eq)	98.8	%	0.1	AOAC 955.01 *	acm2-2016/02/16	mgn8-2016/02/18
ECCE	45.2	%	0.1	Calculation *	Auto-2016/02/16	Auto-2016/02/18
% passing 4 sieve	99.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 8 sieve	75.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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www.midwestlabs.com

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

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: AGL00416	Lab Number: 2493322 (con't)					
% passing 60 sieve	22.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 30 sieve	36.3	%	0.1	ASTM D 422 *	eas2-2016/02/16	mgn8-2016/02/18
% passing 100 sieve	14.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18
% passing 200 sieve	7.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/02/16	mgn8-2016/02/18

All results are reported on an AS RECEIVED basis.

For questions please contact:

Rob Ferris
Account Manager
raf4@midwestlabs.com (402)829-9871

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www.midwestlabs.com**CALCIUM PRODUCTS INC
2520 N LOOP DR STE 7100
AMES IA 50010-8279****REPORT OF ANALYSIS**For: (7294) CALCIUM PRODUCTS INC
LIME ANALYSIS
P26183**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

16-049-4099

REPORT DATE
Feb 18, 2016

RECEIVED DATE
Feb 15, 2016

SEND TO
7294



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ISSUE DATE
Feb 18, 2016

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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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