

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

**REPORT OF ANALYSIS**

For: (7294) CALCIUM PRODUCTS INC  
ANDREW HOIBERG

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: <b>AGL00115</b>	Lab Number: <b>2375929</b>					
Moisture	1.9	%	0.1	SM 2540 G-(1997) *	bjs0-2015/03/09	jib4-2015/03/11
Calcium (total)	33.2	%	0.01	MWL ME PROC 26 *	trh1-2015/03/10	jib4-2015/03/11
Magnesium (total)	0.38	%	0.01	MWL ME PROC 26 *	trh1-2015/03/10	jib4-2015/03/11
Total neutralizing value (CaCO3 eq)	89.8	%	0.1	AOAC 955.01 *	acm2-2015/03/09	jib4-2015/03/11
ECCE	54.0	%	0.1	Calculation *	Auto-2015/03/11	Auto-2015/03/11
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod)	kbj4-2015/03/11	jib4-2015/03/11
% passing 8 sieve	89.9	%	0.1	ASTM E 276-13 (mod)	kbj4-2015/03/11	jib4-2015/03/11
% passing 60 sieve	38.6	%	0.1	ASTM E 276-13 (mod)	kbj4-2015/03/11	jib4-2015/03/11
% passing 20 sieve	57.8	%	0.1	ASTM D 422 *	kbj4-2015/03/11	jib4-2015/03/11
% passing 200 sieve	28.0	%	0.1	ASTM E 276-13 (mod)	kbj4-2015/03/11	jib4-2015/03/11
% passing 30 sieve	51.4	%	0.1	ASTM D 422 *	kbj4-2015/03/11	jib4-2015/03/11
% passing 80 sieve	35.0	%	0.0	ROTAP SHAKER (5 MIN)	kbj4-2015/03/11	jib4-2015/03/11
% passing 100 sieve	33.6	%	0.1	ASTM E 276-13 (mod)	kbj4-2015/03/11	jib4-2015/03/11

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

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REPORT NUMBER

**15-070-4113**

REPORT DATE  
**Mar 11, 2015**  
RECEIVED DATE  
**Mar 06, 2015**

SEND TO  
**7294**



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ISSUE DATE  
**Mar 11, 2015**

**CALCIUM PRODUCTS INC  
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**REPORT OF ANALYSIS**

For: (7294) CALCIUM PRODUCTS INC  
ANDREW HOIBERG

Analysis	Level Found	Units	Reporting	Method	Analyst-	Verified-
	As Received		Limit		Date	Date

All results are reported on an AS RECEIVED basis.

For questions please contact:

Rob Ferris  
Client Service Representative  
rob.ferris@midwestlabs.com (402)829-9871

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**CALCIUM PRODUCTS INC  
2520 N LOOP DR STE 7100  
AMES IA 50010-8279****REPORT OF ANALYSIS**For: (7294) CALCIUM PRODUCTS INC  
ANDREW HOIBERG**Detailed Method Description(s)****SM 2540 G**

Analysis follows MWL WC PROC 60 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 degrees 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 PROC 26 which is based on AOAC 985.01. Samples have been prepared using MWL WC PROC 56 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 PROC 39 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.

**ROTAP 2 MIN**

Sample analysis follows MWL PR PROC 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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