

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

**REPORT OF ANALYSIS**

For: (7294) CALCIUM PRODUCTS INC  
CALCIUM PRODUCTS  
P25838

Analysis	Level Found		Reporting		Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
<b>Sample ID: AGL02615    Lab Number: 2471457    Date Sampled: 2015-12-02</b>						
Moisture	n.d.	%	0.1	SM 2540 G-(1997) *	bjs0-2015/12/04	mgn8-2015/12/09
Calcium (total)	21.1	%	0.01	MWL ME PROC 26 *	cvs7-2015/12/04	mgn8-2015/12/09
Magnesium (total)	12.6	%	0.01	MWL ME PROC 26 *	cvs7-2015/12/04	mgn8-2015/12/09
Total neutralizing value (CaCO3 eq)	101.9	%	0.1	AOAC 955.01 *	acm2-2015/12/04	mgn8-2015/12/09
ECCE	48.8	%	0.1	Calculation *	Auto-2015/12/04	Auto-2015/12/09
% passing 4 sieve	99.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09
% passing 8 sieve	66.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09
% passing 30 sieve	40.0	%	0.1	ASTM D 422 *	eas2-2015/12/04	mgn8-2015/12/09
% passing 60 sieve	29.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09
% passing 100 sieve	22.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09
% passing 200 sieve	13.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09
<b>Sample ID: AGL02715    Lab Number: 2471458    Date Sampled: 2015-12-02</b>						
Moisture	6.1	%	0.1	SM 2540 G-(1997) *	bjs0-2015/12/04	mgn8-2015/12/09
Calcium (total)	19.8	%	0.01	MWL ME PROC 26 *	cvs7-2015/12/04	mgn8-2015/12/09
Magnesium (total)	11.5	%	0.01	MWL ME PROC 26 *	cvs7-2015/12/04	mgn8-2015/12/09
Total neutralizing value (CaCO3 eq)	95.6	%	0.1	AOAC 955.01 *	acm2-2015/12/04	mgn8-2015/12/09
ECCE	46.9	%	0.1	Calculation *	Auto-2015/12/04	Auto-2015/12/09
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09
% passing 8 sieve	70.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09

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	As Received	Units	Limit	Method			
<b>Sample ID: AGL02715</b>	Lab Number: <b>2471458</b> (con't)						
% passing 30 sieve	39.5	%	0.1	ASTM D 422 *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 60 sieve	29.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 100 sieve	22.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 200 sieve	14.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
<b>Sample ID: AGL02815</b>	Lab Number: <b>2471459</b>		Date Sampled: <b>2015-12-02</b>				
Moisture	8.8	%	0.1	SM 2540 G-(1997) *	bjs0-2015/12/08	mgn8-2015/12/09	
Calcium (total)	27.3	%	0.01	MWL ME PROC 26 *	cvs7-2015/12/04	mgn8-2015/12/09	
Magnesium (total)	3.48	%	0.01	MWL ME PROC 26 *	cvs7-2015/12/04	mgn8-2015/12/09	
Total neutralizing value (CaCO3 eq)	84.3	%	0.1	AOAC 955.01 *	acm2-2015/12/04	mgn8-2015/12/09	
ECCE	51.6	%	0.1	Calculation *	Auto-2015/12/04	Auto-2015/12/09	
% passing 4 sieve	92.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 8 sieve	81.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 30 sieve	56.6	%	0.1	ASTM D 422 *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 60 sieve	46.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 100 sieve	42.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	
% passing 200 sieve	37.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/12/04	mgn8-2015/12/09	

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REPORT NUMBER

**15-343-4157**

REPORT DATE  
**Dec 09, 2015**

RECEIVED DATE  
**Dec 03, 2015**

SEND TO  
**7294**



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

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

For questions please contact:

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

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P25838**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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**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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