

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
CALCIUM PRODUCTS

Analysis	Level Found		Reporting		Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
Sample ID: AGL00116 Lab Number: 2480016 Date Sampled: 2016-01-04						
Moisture	7.2	%	0.1	SM 2540 G-(1997) *	bjs0-2016/01/06	mgn8-2016/01/08
Calcium (total)	33.6	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08
Magnesium (total)	0.58	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08
Total neutralizing value (CaCO3 eq)	87.5	%	0.1	AOAC 955.01 *	acm2-2016/01/06	mgn8-2016/01/08
ECCE	52.1	%	0.1	Calculation *	Auto-2016/01/06	Auto-2016/01/08
% passing 4 sieve	99.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 8 sieve	95.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 30 sieve	51.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 60 sieve	35.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 100 sieve	30.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 200 sieve	24.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
Sample ID: AGL00216 Lab Number: 2480017 Date Sampled: 2016-01-04						
Moisture	7.5	%	0.1	SM 2540 G-(1997) *	bjs0-2016/01/06	mgn8-2016/01/08
Calcium (total)	21.9	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08
Magnesium (total)	9.10	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08
Total neutralizing value (CaCO3 eq)	89.9	%	0.1	AOAC 955.01 *	acm2-2016/01/06	mgn8-2016/01/08
ECCE	48.4	%	0.1	Calculation *	Auto-2016/01/06	Auto-2016/01/08
% passing 4 sieve	92.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 8 sieve	70.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08

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Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
	As Received	Units	Limit	Method			
Sample ID: AGL00216	Lab Number: 2480017 (con't)						
% passing 30 sieve	47.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 60 sieve	38.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 100 sieve	35.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 200 sieve	29.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
Sample ID: ALDEN-2000	Lab Number: 2480018		Date Sampled: 2016-01-04				
Moisture	n.d.	%	0.1	SM 2540 G-(1997) *	bjs0-2016/01/06	mgn8-2016/01/08	
Calcium (total)	38.3	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08	
Magnesium (total)	0.11	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08	
Total neutralizing value (CaCO3 eq)	97.1	%	0.1	AOAC 955.01 *	acm2-2016/01/06	mgn8-2016/01/08	
ECCE	96.6	%	0.1	Calculation *	Auto-2016/01/06	Auto-2016/01/08	
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 30 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 60 sieve	99.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 100 sieve	95.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
% passing 200 sieve	75.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08	
Sample ID: ALDEN-98G	Lab Number: 2480019		Date Sampled: 2016-01-04				
Moisture	0.3	%	0.1	SM 2540 G-(1997) *	bjs0-2016/01/06	mgn8-2016/01/08	
Calcium (total)	37.0	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08	

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REPORT OF ANALYSIS

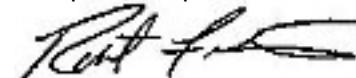
For: (7294) CALCIUM PRODUCTS INC
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Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: ALDEN-98G	Lab Number: 2480019 (con't)					
Magnesium (total)	0.11	%	0.01	MWL ME PROC 26 *	cvs7-2016/01/06	mgn8-2016/01/08
Total neutralizing value (CaCO ₃ eq)	93.3	%	0.1	AOAC 955.01 *	acm2-2016/01/06	mgn8-2016/01/08
ECCE	93.0	%	0.1	Calculation *	Auto-2016/01/06	Auto-2016/01/08
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 30 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 60 sieve	99.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 100 sieve	95.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08
% passing 200 sieve	81.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2016/01/06	mgn8-2016/01/08

This report was reissued on 2016-01-12 08:52:54 by lmh7 for the following reason:
Added PO Number.

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

For questions please contact:



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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.

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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