REPORT NUMBER
16-210-4034 v3

REPORT DATE
Jul 28, 2016

SEND TO
7294

RECEIVED DATE
Jun 28, 2016

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ISSUE DATE
Jul 28, 2016

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
CALCIUM PRODUCTS

Analysis — Missouri Valley Pell-Lime	Level Found As Received	Units	Reporting Limit	Method	Analyst-Date	Verified-Date
Sample ID: **PELL00116** Lab Number: **2544491** Date Sampled: **2016-06-27**						
Moisture	0.8	%	0.1	SM 2540 G-(1997) *	bjs0-2016/07/01	mjs5-2016/07/05
Calcium (total)	33.0	%	0.01	MWL ME PROC 26 *	lmn7-2016/06/29	mgn8-2016/07/01
Magnesium (total)	0.39	%	0.01	MWL ME PROC 26 *	lmn7-2016/06/29	mgn8-2016/07/01
Total neutralizing value (CaCO3 eq)	89.8	%	0.1	AOAC 955.01 *	amo7-2016/07/05	mjs5-2016/07/05
ECCE	72.2	%	0.1	Calculation *	Auto-2016/07/05	Auto-2016/07/05
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	rko9-2016/07/05	mjs5-2016/07/05
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod) *	rko9-2016/07/05	mjs5-2016/07/05
% passing 30 sieve	88.4	%	0.1	ASTM E 276-13 (mod) *	rko9-2016/07/05	mjs5-2016/07/05
% passing 60 sieve	67.3	%	0.1	ASTM E 276-13 (mod) *	rko9-2016/07/05	mjs5-2016/07/05
% passing 100 sieve	57.1	%	0.1	ASTM E 276-13 (mod) *	rko9-2016/07/05	mjs5-2016/07/05
% passing 200 sieve	46.8	%	0.1	ASTM E 276-13 (mod) *	rko9-2016/07/05	mjs5-2016/07/05
Humic acid	0.20	%	0.10	Calif 4A 4/JC *	eas2-2016/06/30	mgn8-2016/07/01

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

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

This report was reissued on 2016-07-28 10:31:52 by raf4 for the following reason:
split report.
All results are reported on an AS RECEIVED basis.

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.

CALIF 4A 4/JC humic acid

Sample analysis follows MWL WC 059 which is based the California 4A/JC procedure. Samples are dissolved by treatment woith 1 N sodium hydroxide and then precipitated with hydrochloric acid. The resultant precipitate is dried and weighed and the result posted in %.

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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 digestor