

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
MARTIN MARIETTA
K. SPRUNG

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: AG LIME	Lab Number: 70099592					
Moisture	5.1	%	0.1	SM 2540 G-(1997)	Mmg9-2022/04/14	eas2-2022/04/15
Calcium (total)	26.9	%	0.01	MWL ME PROC 26	trh1-2022/04/19	eas2-2022/04/20
Magnesium (total)	6.67	%	0.01	MWL ME PROC 26	jdg9-2022/04/14	eas2-2022/04/20
Total neutralizing value (CaCO ₃ eq)	92.9	%	0.1	AOAC 955.01	jed2-2022/04/20	eas2-2022/04/20
ECCE	49.4	%	0.1	Calculation	Auto-2022/04/20	Auto-2022/04/20
% passing 4 sieve	97.4	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 8 sieve	85.0	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 20 sieve	54.2	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 30 sieve	45.7	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 60 sieve	30.0	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 80 sieve	24.8	%	0.0	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 100 sieve	23.1	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% passing 200 sieve	16.3	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15
% retained pan	16.3	%	0.1	ASTM E 276-13 (mod)	Rpk5-2022/04/15	eas2-2022/04/15

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

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REPORT NUMBER

22-110-4032

REPORT DATE
Apr 20, 2022

SEND TO
7294

RECEIVED DATE
Apr 13, 2022



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www.midwestlabs.com

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ISSUE DATE
Apr 20, 2022

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Analysis	Level Found As Received	Units	Reporting Limit	Method	Analyst- Date	Verified- Date
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All results are reported on an AS RECEIVED basis.

For questions please contact:

Stefanie Rath
Account Manager
srath@midwestlabs.com (402)829-9881

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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. Total minerals in fertilizers have been prepared by AOAC 957.02 using mineral acids and heat. Water soluble manganese is prepared by AOAC 972.03 and the other water soluble by AOAC 977.01. 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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