

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

**REPORT OF ANALYSIS**

For: (7294) CALCIUM PRODUCTS INC  
LIME ANALYSIS  
AGRILAND F.S.

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: <b>FB 2</b>	Lab Number: <b>8828675</b>					
Moisture	6.2	%	0.1	SM 2540 G-(1997)	wib1-2020/11/12	asl4-2020/11/16
Calcium (total)	15.9	%	0.01	MWL ME PROC 26	ras7-2020/11/11	asl4-2020/11/16
Magnesium (total)	6.74	%	0.01	MWL ME PROC 26	ras7-2020/11/11	asl4-2020/11/16
Total neutralizing value (CaCO <sub>3</sub> eq)	60.8	%	0.1	AOAC 955.01	eas2-2020/11/12	asl4-2020/11/16
ECCE	43.9	%	0.1	Calculation	Auto-2020/11/17	Auto-2020/11/17
% passing 4 sieve	99.5	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 8 sieve	94.8	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 20 sieve	76.3	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 30 sieve	70.1	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 60 sieve	56.4	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 80 sieve	51.6	%	0.0	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 100 sieve	49.2	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% passing 200 sieve	36.5	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17
% retained pan	36.5	%	0.1	ASTM E 276-13 (mod)	may8-2020/11/17	tat9-2020/11/17

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

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REPORT NUMBER

**20-322-4099**

REPORT DATE  
**Nov 17, 2020**  
RECEIVED DATE  
**Nov 10, 2020**

SEND TO  
**7294**



13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770  
www.midwestlabs.com

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ISSUE DATE  
**Nov 17, 2020**

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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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