

**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 Samples_Brett
05/16/24
P43436

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: Midway Quarry Lab Number: 70471033						
Moisture	n.d.	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	19.6	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24
Magnesium (total)	11.9	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24
Total neutralizing value (CaCO ₃ eq)	99.8	%	0.1	AOAC 955.01	jed2-2024/05/23	eas2-2024/05/24
ECCE	43.6	%	0.1	Calculation	Auto-2024/05/28	Auto-2024/05/28
% passing 4 sieve	99.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 8 sieve	89.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 10 sieve	83.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 20 sieve	42.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 30 sieve	30.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 40 sieve	21.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 50 sieve	13.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 60 sieve	11.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 80 sieve	8.1	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 100 sieve	7.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 200 sieve	5.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% retained pan	5.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28

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**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 Samples_Brett
05/16/24
P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Garden Plain Lab Number: 70471034						
Moisture	0.2	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	20.8	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24
Magnesium (total)	12.1	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24
Total neutralizing value (CaCO3 eq)	100.0	%	0.1	AOAC 955.01	jed2-2024/05/23	eas2-2024/05/24
ECCE	56.9	%	0.1	Calculation	Auto-2024/05/28	Auto-2024/05/28
% passing 4 sieve	94.4	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 8 sieve	75.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 10 sieve	70.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 20 sieve	54.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 30 sieve	50.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 40 sieve	46.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 50 sieve	42.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 60 sieve	41.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 80 sieve	36.4	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 100 sieve	33.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 200 sieve	19.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% retained pan	19.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
Lime Samples_Brett
05/16/24
P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Emerson Quarry Lab Number: 70471035						
Moisture	1.7	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	14.0	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24
Magnesium (total)	8.12	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24
Total neutralizing value (CaCO3 eq)	61.6	%	0.1	AOAC 955.01	jed2-2024/05/23	eas2-2024/05/24
ECCE	34.3	%	0.1	Calculation	Auto-2024/05/28	Auto-2024/05/28
% passing 4 sieve	99.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 8 sieve	79.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 10 sieve	73.4	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 20 sieve	49.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 30 sieve	44.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 40 sieve	41.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 50 sieve	37.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 60 sieve	36.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 80 sieve	34.4	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 100 sieve	33.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 200 sieve	27.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% retained pan	27.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found		Reporting			Analyst-Date	Verified-Date
	As Received	Units	Limit	Method			
Sample ID: Sword	Lab Number: 70471036						
Moisture	3.3	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24	
Calcium (total)	20.3	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24	
Magnesium (total)	11.7	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/24	
Total neutralizing value (CaCO3 eq)	98.8	%	0.1	AOAC 955.01	jed2-2024/05/23	eas2-2024/05/24	
ECCE	58.4	%	0.1	Calculation	Auto-2024/05/28	Auto-2024/05/28	
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 8 sieve	88.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 10 sieve	83.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 20 sieve	59.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 30 sieve	51.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 40 sieve	46.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 50 sieve	39.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 60 sieve	37.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 80 sieve	31.6	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 100 sieve	28.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% passing 200 sieve	19.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	
% retained pan	19.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28	

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Palmyra Quarry Lab Number: 70471037						
Moisture	3.5	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	19.2	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	11.5	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	97.7	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	63.6	%	0.1	Calculation	Auto-2024/05/28	Auto-2024/05/28
% passing 4 sieve	99.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 8 sieve	84.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 10 sieve	80.4	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 20 sieve	63.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 30 sieve	59.4	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 40 sieve	55.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 50 sieve	51.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 60 sieve	49.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 80 sieve	43.2	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 100 sieve	37.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% passing 200 sieve	17.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28
% retained pan	17.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/28	eas2-2024/05/28

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Mt. Carroll Quarry Lab Number: 70471038						
Moisture	3.5	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	19.7	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	12.0	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	99.0	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	43.8	%	0.1	Calculation	Auto-2024/05/29	Auto-2024/05/29
% passing 4 sieve	91.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 8 sieve	63.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 10 sieve	58.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 20 sieve	41.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 30 sieve	36.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 40 sieve	32.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 50 sieve	28.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 60 sieve	26.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 80 sieve	23.1	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 100 sieve	21.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 200 sieve	14.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% retained pan	14.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Savanna Quarry Lab Number: 70471039						
Moisture	1.9	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	20.1	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	12.1	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	100.1	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	52.0	%	0.1	Calculation	Auto-2024/05/29	Auto-2024/05/29
% passing 4 sieve	99.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 8 sieve	76.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 10 sieve	71.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 20 sieve	50.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 30 sieve	43.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 40 sieve	38.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 50 sieve	33.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 60 sieve	31.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 80 sieve	27.2	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 100 sieve	24.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 200 sieve	16.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% retained pan	16.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29

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For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Mammoser Lab Number: 70471040						
Moisture	3.3	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	19.2	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	11.5	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	96.2	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	46.6	%	0.1	Calculation	Auto-2024/05/29	Auto-2024/05/29
% passing 4 sieve	97.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 8 sieve	70.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 10 sieve	64.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 20 sieve	45.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 30 sieve	39.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 40 sieve	34.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 50 sieve	30.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 60 sieve	28.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 80 sieve	25.1	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 100 sieve	23.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% passing 200 sieve	15.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29
% retained pan	15.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/29	eas2-2024/05/29

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Millerschone Quarry Lab Number: 70471041						
Moisture	3.6	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	19.5	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	11.7	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	94.1	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	46.6	%	0.1	Calculation	Auto-2024/05/30	Auto-2024/05/30
% passing 4 sieve	97.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 8 sieve	72.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 10 sieve	66.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 20 sieve	47.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 30 sieve	42.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 40 sieve	37.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 50 sieve	31.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 60 sieve	30.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 80 sieve	25.6	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 100 sieve	22.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 200 sieve	14.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% retained pan	14.8	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
Lime Samples_Brett
05/16/24
P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Eustice Quarry Lab Number: 70471042						
Moisture	3.2	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	20.2	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	11.8	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	100.0	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	57.8	%	0.1	Calculation	Auto-2024/05/30	Auto-2024/05/30
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 8 sieve	86.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 10 sieve	80.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 20 sieve	57.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 30 sieve	51.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 40 sieve	45.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 50 sieve	38.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 60 sieve	36.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 80 sieve	30.3	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 100 sieve	26.6	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 200 sieve	17.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% retained pan	17.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30

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 AMES IA 50010-8279**

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
 Lime Samples_Brett
 05/16/24
 P43436

Analysis	Level Found	Units	Reporting		Analyst-Date	Verified-Date
	As Received		Limit	Method		
Sample ID: Virtue Quarry Lab Number: 70471043						
Moisture	2.2	%	0.1	SM 2540 G-(2015)	Ppj2-2024/05/24	eas2-2024/05/24
Calcium (total)	26.8	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Magnesium (total)	7.23	%	0.01	MWL ME PROC 26	Auto-2024/05/23	eas2-2024/05/28
Total neutralizing value (CaCO3 eq)	95.2	%	0.1	AOAC 955.01	jed2-2024/05/28	eas2-2024/05/28
ECCE	33.4	%	0.1	Calculation	Auto-2024/05/30	Auto-2024/05/30
% passing 4 sieve	99.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 8 sieve	49.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 10 sieve	42.2	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	eas2-2024/05/30
% passing 20 sieve	25.9	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 30 sieve	22.7	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 40 sieve	20.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 50 sieve	18.0	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 60 sieve	17.3	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 80 sieve	15.3	%	0.0	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 100 sieve	14.1	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% passing 200 sieve	10.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30
% retained pan	10.5	%	0.1	ASTM E 276-13 (mod)	kae1-2024/05/30	tat9-2024/05/30

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REPORT NUMBER

24-151-4018 v2

REPORT DATE
May 30, 2024

SEND TO
7294

RECEIVED DATE
May 22, 2024



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ISSUE DATE
May 30, 2024

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

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
Lime Samples_Brett
05/16/24
P43436

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

This report was reissued on 2024-05-30 14:09:06 by eas2 for the following reason:
correcting data entry error.

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

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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