



Midwest Laboratories Inc.®

Report Number
13-296-2098

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
www.midwestlabs.com

REPORT OF ANALYSIS

For: (7294) CALCIUM PRODUCTS INC
(515)373-6554

Mail to:

**CALCIUM PRODUCTS INC
PO BOX 281
GILMORE CITY IA 50541-**

PO/Proj. #: P20451
LIME ANALYSIS

Date Reported: 10/23/13
Date Received: 10/17/13
Date Sampled: Not Supplied
Time Sampled: Not Supplied

Lab number: 2194603

| Analysis | Level Found | Units | Detection Limit | Method | Analyst-Date | Verified-Date |
|------------------------------------|-------------|-------|-----------------|----------------------|--------------|---------------|
| <u>Sample ID: MO VALLEY</u> | | | | | | |
| Moisture | 0.74 | % | 0.10 | AOAC 17E 950.01 100C | mgn-10/22 | mjs-10/23 |
| Calcium | 34.00 | % | 0.01 | ICAP | krr-10/18 | mjs-10/23 |
| Magnesium | 0.42 | % | 0.01 | ICAP | krr-10/18 | mjs-10/23 |
| Total Neutralizing Val(CaCO3 eq) | 86.71 | % | 0.10 | AOAC 955.01 | mgn-10/22 | mjs-10/23 |
| ECCE | 82.40 | % | | CALCULATED | mjs-10/23 | mjs-10/23 |
| Sieve analysis (% passing 4 mesh) | 99 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| Sieve Analysis (% passing 8 mesh) | 97 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| Sieve Analysis (% passing 60 mesh) | 72 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| <u>Sample ID: MK LIME</u> | | | | | | |
| Moisture | 0.92 | % | 0.10 | AOAC 17E 950.01 100C | mgn-10/22 | mjs-10/23 |
| Calcium | 34.00 | % | 0.01 | ICAP | krr-10/18 | mjs-10/23 |
| Magnesium | 0.53 | % | 0.01 | ICAP | krr-10/18 | mjs-10/23 |
| Total Neutralizing Val(CaCO3 eq) | 83.18 | % | 0.10 | AOAC 955.01 | mgn-10/22 | mjs-10/23 |
| ECCE | 81.20 | % | | CALCULATED | mjs-10/23 | mjs-10/23 |
| Sieve analysis (% passing 4 mesh) | 100 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| Sieve Analysis (% passing 8 mesh) | 100 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| Sieve Analysis (% passing 60 mesh) | 96 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |



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REPORT OF ANALYSIS

Account: 7294 CALCIUM PRODUCTS INC

Report Number: 13-296-2098

| Analysis | Level Found | Units | Detection Limit | Method | Analyst-Date | Verified-Date |
|------------------------------------|-------------|-------|-----------------|----------------------|--------------|---------------|
| <u>Sample ID: TUB LIME</u> | | | | | | |
| Moisture | 8.03 | % | 0.10 | AOAC 17E 950.01 100C | mgn-10/22 | mjs-10/23 |
| Calcium | 26.20 | % | 0.01 | ICAP | krr-10/18 | mjs-10/23 |
| Magnesium | 3.06 | % | 0.01 | ICAP | krr-10/18 | mjs-10/23 |
| Total Neutralizing Val(CaCO3 eq) | 78.53 | % | 0.10 | AOAC 955.01 | mgn-10/22 | mjs-10/23 |
| ECCE | 42.60 | % | | CALCULATED | mjs-10/23 | mjs-10/23 |
| Sieve analysis (% passing 4 mesh) | 100 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| Sieve Analysis (% passing 8 mesh) | 99 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |
| Sieve Analysis (% passing 60 mesh) | 48 | % | | WET SIEVE | mjs-10/23 | mjs-10/23 |

Notes:

AOAC - Association of Official Analytical Chemists.
 ICAP - Inductively Coupled Argon Plasma.
 ECCE (Effective Calcium Carbonate Equivalent) represents the Total Neutralizing Value (CaCO3 Equivalent) adjusted for effectiveness based on the particle size of the Lime. This percentage (ECCE) multiplied by 20 yields the lbs. of effective Lime per ton of material.

For questions contact

Rob Ferris
 Client Service Representative
 rob@midwestlabs.com (402)829-9871

10/16/13

Fertilizer Sample Submittal Form for Account 7294

Ship samples together with this sheet to



13611 B St. Omaha, NE 68144 402-334-7770

13611 B Street • Omaha, NE 68144-3693 • 402-334-7770 • FAX 402-334-9121

10-17-13 11:59 RCVD

cc

REPORT AND BILL TO

NAME: CALCIUM PRODUCTS INC
ADDRESS: PO BOX 281
CITY: GILMORE CITY
STATE: IA
ZIP: 50541-

ACCOUNT: 7294

SUBMIT DATE: 2013-10-16

IDENTIFICATION

Andrew Hoiberg
5916 Valley Road
Ames, IA 50014

P.O.: P20451

COPY TO

NAME:
ADDRESS:
CITY:
STATE:
ZIP:
ACCOUNT:

SAMPLE DATE: 2013-10-16

Fertilizer Sample Submittal Form

| SAMPLE ID | APPROX. LEVEL | N | N-P | N-P-K | 10-34-0 | Compost/ Organic Fertilizer | Lime | Gypsum | Micro Nutrients | WA H. Metals |
|-------------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| MO VALLEY 2194603 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| MK LIME 2194604 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TUB LIME 2194605 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments (Other Analysis)

Blank area for handwritten comments.

MIDWEST LABORATORIES - LAB USE ONLY

MIDWEST LABORATORIES - RECEIVING USE ONLY

| | |
|--------------------------------|-------------|
| Temp on Arrival <i>16.2</i> | Date/Time |
| No. of Containers | Received By |
| | Comments |

Unless otherwise requested, all samples will be analyzed by accredited test methods when available.



(3) 2194603-2194605