

**CALCIUM PRODUCTS INC  
2520 N LOOP DR STE 7100  
AMES IA 50010-8279**
**REPORT OF ANALYSIS**
**For: (7294) CALCIUM PRODUCTS INC  
CALCIUM PRODUCTS  
P25629**

Analysis	Level Found		Reporting		Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
Sample ID: <b>AGL01415</b> Lab Number: <b>2458242</b> Date Sampled: <b>2015-10-22</b>						
Moisture	4.0	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28
Calcium (total)	19.9	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Magnesium (total)	11.8	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Total neutralizing value (CaCO3 eq)	93.9	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28
ECCE	51.8	%	0.1	Calculation *	Auto-2015/10/27	Auto-2015/10/28
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 8 sieve	86.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 60 sieve	32.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 20 sieve	53.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 30 sieve	47.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 80 sieve	26.8	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 100 sieve	24.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
% passing 200 sieve	11.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/27	mgn8-2015/10/28
Sample ID: <b>AGL01515</b> Lab Number: <b>2458243</b> Date Sampled: <b>2015-10-22</b>						
Moisture	0.7	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28
Calcium (total)	39.2	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Magnesium (total)	0.20	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Total neutralizing value (CaCO3 eq)	97.5	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28
ECCE	72.8	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28

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<b>Sample ID: AGL01515</b>	Lab Number: <b>2458243</b> (con't)					
% passing 4 sieve	97.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 8 sieve	94.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 60 sieve	60.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 20 sieve	81.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 30 sieve	76.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 80 sieve	54.6	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 100 sieve	51.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 200 sieve	37.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
<b>Sample ID: AGL01615</b>	Lab Number: <b>2458244</b>		Date Sampled: <b>2015-10-22</b>			
Moisture	2.7	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28
Calcium (total)	20.4	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Magnesium (total)	12.5	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Total neutralizing value (CaCO3 eq)	98.2	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28
ECCE	46.7	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28
% passing 4 sieve	95.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 8 sieve	67.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 60 sieve	29.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 20 sieve	44.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 30 sieve	40.1	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28

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<b>Sample ID: AGL01615</b>	Lab Number: <b>2458244</b> (con't)						
% passing 80 sieve	25.6	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 100 sieve	23.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 200 sieve	16.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
<b>Sample ID: AGL01715</b>	Lab Number: <b>2458245</b>		Date Sampled: <b>2015-10-22</b>				
Moisture	6.0	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28	
Calcium (total)	16.7	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Magnesium (total)	9.75	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Total neutralizing value (CaCO3 eq)	80.6	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28	
ECCE	62.2	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28	
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 8 sieve	99.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 60 sieve	62.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 20 sieve	86.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 30 sieve	79.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 80 sieve	54.3	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 100 sieve	51.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 200 sieve	38.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	

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Analysis	Level Found		Reporting		Method	Analyst- Date	Verified- Date
	As Received	Units	Limit				
Sample ID: <b>AGL01815</b>	Lab Number: <b>2458246</b>	Date Sampled: <b>2015-10-22</b>					
Moisture	54.9	%	0.1		SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28
Calcium (total)	14.6	%	0.01		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Magnesium (total)	2.07	%	0.01		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Total neutralizing value (CaCO3 eq)	40.8	%	0.1		AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28
ECCE	40.5	%	0.1		Calculation *	Auto-2015/10/28	Auto-2015/10/28
% passing 4 sieve	100	%	0.1		ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 8 sieve	100	%	0.1		ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 60 sieve	98.8	%	0.1		ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
Boron (total)	n.d.	ppm	20		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Sulfur (total)	0.06	%	0.05		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Phosphorus (total)	n.d.	%	0.05		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Potassium (total)	n.d.	%	0.05		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Sodium (total)	0.04	%	0.01		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Iron (total)	1060	ppm	50.0		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Manganese (total)	161	ppm	20.0		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Zinc (total)	n.d.	ppm	20.0		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Copper (total)	n.d.	ppm	20.0		MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Mercury (total)	n.d.	mg/kg	0.05		EPA 7471 *	ccm2-2015/10/27	bab2-2015/10/28
Zinc (total)	3.5	mg/kg	2.0		EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28

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<b>Sample ID: AGL01815</b>	Lab Number: <b>2458246</b> (con't)						
Selenium (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Lead (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Nickel (total)	1.1	mg/kg	1.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Molybdenum (total)	n.d.	mg/kg	1.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Cobalt (total)	n.d.	mg/kg	1.00	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Arsenic (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Aluminum (total)	3480	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
% passing 20 sieve	99.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 30 sieve	99.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 80 sieve	97.3	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 100 sieve	96.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 200 sieve	93.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
<b>Sample ID: AGL01915</b>	Lab Number: <b>2458247</b>		Date Sampled: <b>2015-10-22</b>				
Moisture	24.3	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28	
Calcium (total)	26.4	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Magnesium (total)	2.35	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Total neutralizing value (CaCO <sub>3</sub> eq)	65.6	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28	
ECCE	52.5	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28	

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Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
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<b>Sample ID: AGL01915</b>	Lab Number: <b>2458247</b> (con't)					
% passing 4 sieve	91.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 8 sieve	87.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 60 sieve	74.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
Boron (total)	39	ppm	20	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Sulfur (total)	1.03	%	0.05	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Phosphorus (total)	n.d.	%	0.05	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Potassium (total)	0.45	%	0.05	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Sodium (total)	0.14	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Iron (total)	5620	ppm	50.0	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Manganese (total)	115	ppm	20.0	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Zinc (total)	21.8	ppm	20.0	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Copper (total)	n.d.	ppm	20.0	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Mercury (total)	n.d.	mg/kg	0.05	EPA 7471 *	ccm2-2015/10/27	bab2-2015/10/28
Zinc (total)	18.6	mg/kg	2.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28
Selenium (total)	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28
Lead (total)	9.7	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28
Nickel (total)	7.8	mg/kg	1.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28
Molybdenum (total)	1.4	mg/kg	1.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28
Cobalt (total)	3.32	mg/kg	1.00	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28

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Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
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<b>Sample ID: AGL01915</b>	Lab Number: <b>2458247</b> (con't)						
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
Arsenic (total)	7.7	mg/kg	5.0	EPA 6010 *	ras7-2015/10/27	bab2-2015/10/28	
% passing 20 sieve	83.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 30 sieve	79.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 80 sieve	70.9	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 100 sieve	70.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 200 sieve	67.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
<b>Sample ID: AGL02015</b>	Lab Number: <b>2458248</b> Date Sampled: <b>2015-10-22</b>						
Moisture	0.1	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28	
Calcium (total)	38.4	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Magnesium (total)	0.22	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Total neutralizing value (CaCO3 eq)	97.1	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28	
ECCE	73.6	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28	
% passing 4 sieve	98.7	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 8 sieve	96.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 60 sieve	61.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 20 sieve	88.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 30 sieve	83.3	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 80 sieve	52.8	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	

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<b>Sample ID: AGL02015</b>	Lab Number: <b>2458248</b> (con't)						
% passing 100 sieve	50.0	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 200 sieve	37.6	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
<b>Sample ID: UNICAL-P</b>	Lab Number: <b>2458249</b> Date Sampled: <b>2015-10-22</b>						
Moisture	0.1	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28	
Calcium (total)	38.2	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Magnesium (total)	0.12	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	
Total neutralizing value (CaCO3 eq)	96.9	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28	
ECCE	96.4	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28	
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 60 sieve	99.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 20 sieve	99.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 30 sieve	99.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 80 sieve	95.9	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 100 sieve	93.2	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
% passing 200 sieve	65.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28	
<b>Sample ID: ALDEN-98G</b>	Lab Number: <b>2458250</b> Date Sampled: <b>2015-10-22</b>						
Moisture	0.4	%	0.1	SM 2540 G-(1997) *	bjs0-2015/10/27	mgn8-2015/10/28	
Calcium (total)	35.1	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28	

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

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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  
CALCIUM PRODUCTS  
P25629

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
<b>Sample ID: ALDEN-98G</b>	Lab Number: <b>2458250</b> (con't)					
Magnesium (total)	0.11	%	0.01	MWL ME PROC 26 *	cjm4-2015/10/27	mgn8-2015/10/28
Total neutralizing value (CaCO <sub>3</sub> eq)	92.8	%	0.1	AOAC 955.01 *	acm2-2015/10/27	mgn8-2015/10/28
ECCE	92.5	%	0.1	Calculation *	Auto-2015/10/28	Auto-2015/10/28
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 60 sieve	99.4	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 20 sieve	100	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 30 sieve	99.9	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 80 sieve	97.1	%	0.0	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 100 sieve	94.5	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28
% passing 200 sieve	76.8	%	0.1	ASTM E 276-13 (mod) *	eas2-2015/10/28	mgn8-2015/10/28

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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  
CALCIUM PRODUCTS  
P25629

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

Sample(s) was prepared for EPA 6010 analysis by EPA 3050b.

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:

Rob Ferris  
Account Manager  
rob.ferris@midwestlabs.com (402)829-9871

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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  
CALCIUM PRODUCTS  
P25629**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.

**ME 067**

Samples are analyzed for mercury using MWL ME 067 which is based upon EPA 7471, cold vapor atomic absorption (CVAA).

Samples are prepared via MWL ME 037 that uses a series of digestion steps involving hot mineral acids and oxidizers so as to destroy organic matter and solubilize mercury. The mercury is reduced by use of stannous chloride to elemental mercury that is then aerated to the light path of a mercury light of an atomic absorption spectrometer (AAS). The absorption of the mercury light at 253.7 nm is then correlated to the level of mercury present in the original sample.

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REPORT NUMBER

**15-301-4110**

REPORT DATE  
**Oct 28, 2015**

RECEIVED DATE  
**Oct 23, 2015**

SEND TO  
**7294**



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ISSUE DATE  
**Oct 28, 2015**

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

**REPORT OF ANALYSIS**

For: (7294) CALCIUM PRODUCTS INC  
CALCIUM PRODUCTS  
P25629

**ME 042**

Analysis follows MWL ME 042 which is based on EPA 6010b, Inductively Coupled Plasma (ICP).

A light emission technique where prepared samples are injected into a high energy plasma that forces the elements in the injected sample to emit light energies which are proportional to the level of minerals and metals present. The light is then detected and correlated to the levels of minerals and metals in the original sample.

**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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