



# Sani-Pure Food Laboratories

CHEMISTS TO THE FOOD INDUSTRIES

178-182 Saddle River Road • Saddle Brook, New Jersey 07663-4619

VOICE (201) 843-2525 • FAX (201) 843-4934 • E-MAIL sanipure.labs@verizon.net

## Certificate of Laboratory Analysis

**PLAINTIFF'S  
EXHIBIT  
CAM-346**

Luzenac America  
John Poston  
17509 Van Road  
Houston, TX 77049

Date Received: 1/19/05  
Date Reported: 1/24/05  
Lab Number: 05,019,c,302  
Page: 1 of 3

Product Identification  
Grind Date  
Ship Name

Luzenac® Guangxi #2  
1/18/2005  
M.V. TAI CHANG

Arrival Date: 12/14/04

<u>ANALYTE</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>	<u>INTERPRETATION</u>
Identification	To Pass Test	<b>Passes Test</b>	MEETS USP
Loss on Ignition (1000° C)	< 6.5%	<b>6.11%</b>	MEETS USP
Acid-Soluble Substances	≤ 2.0%	<b>0.77%</b>	MEETS USP
Reaction and Soluble Substances	≤ 0.1%	<b>0.034%</b>	MEETS USP
Water Soluble Iron	To Pass Test	<b>Passes Test</b>	MEETS USP
Arsenic	< 3 ppm	<b>0.16 ppm</b>	MEETS USP
Heavy Metals	< 0.004%	<b>&lt; 40 ppm</b>	MEETS USP
Lead	≤ 0.001%	<b>1.17 ppm</b>	MEETS USP
Microbial Limits			
Total Bacteria Count	≤ 500 per g	<b>&lt; 10 per g</b>	MEETS USP
Production/Asbestos	To Pass Test	<b>Passes Test</b>	MEETS PhEur
Identification			
A. IR Test	To Pass Test	<b>Passes Test</b>	MEETS PhEur
B.	To Pass Test	<b>Passes Test</b>	MEETS PhEur
C.	To Pass Test	<b>Passes Test</b>	MEETS PhEur
pH	7.0 to 9.0	<b>8.549</b>	MEETS PhEur
Loss on Ignition (1075° C)	< 7.0%	<b>6.19%</b>	MEETS PhEur
Water Soluble Substances	≤ 0.2%	<b>0.018%</b>	MEETS PhEur
Iron	< 0.25%	<b>0.064%</b>	MEETS PhEur
Aluminum	< 2.0%	<b>0.18%</b>	MEETS PhEur
Calcium	< 0.9%	<b>0.42%</b>	MEETS PhEur
Lead	≤ 10 ppm	<b>1.17 ppm</b>	MEETS PhEur
Magnesium	17.0% - 19.5%	<b>17.70%</b>	MEETS PhEur
Microbial Limits			
Total Bacteria Count	≤ 1000 per g	<b>&lt; 10 per g</b>	MEETS PhEur
Microbial Limits / Fungi Count	≤ 100 per g	<b>&lt; 10 per g</b>	MEETS PhEur

Respectfully submitted,  
*Ronald A. Schnitzer*  
Ronald A. Schnitzer  
Director

*John Poston*  
1-21-05



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## Certificate of Laboratory Analysis

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John Poston  
17509 Van Road  
Houston, TX 77049

Date Received: 1/19/05  
Date Reported: 1/24/05  
Lab Number: 05,019,c,302  
Page: 2 of 3

Product Identification  
Grind Date  
Ship Name

Luzenac® Guangxi #2  
1/18/2005  
M.V. TAI CHANG

Arrival Date: 12/14/04

<u>ANALYTE</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>	<u>INTERPRETATION</u>
Identification			
1	To Pass Test	<b>Passes Test</b>	MEETS JP XIII
2	To Pass Test	<b>Passes Test</b>	MEETS JP XIII
Loss on Ignition (450°-550° C)	< 5.0%	<b>4.92%</b>	MEETS JP XIII
Acid or Alkali	Neutral	<b>Neutral</b>	MEETS JP XIII
Acid Soluble Substances	≤ 2.0%	<b>0.77%</b>	MEETS JP XIII
Water Soluble Substances	≤ 4.0 mg	<b>1.20 mg</b>	MEETS JP XIII
Iron Soluble in Water	To Pass Test	<b>Passes Test</b>	MEETS JP XIII
Arsenic	< 4 ppm	<b>0.16 ppm</b>	MEETS JP XIII
Identification			
A.	To Pass Test	<b>Passes Test</b>	MEETS FCC
B.	To Pass Test	<b>Passes Test</b>	MEETS FCC
Loss on Ignition (800° C)	< 6.0%	<b>5.81%</b>	MEETS FCC
Loss on Drying (105° C)	< 0.5%	<b>0.16%</b>	MEETS FCC
Acid Soluble Substances	≤ 2.5%	<b>0.77%</b>	MEETS FCC
Soluble Salts	≤ 0.2%	<b>0.050%</b>	MEETS FCC
Free Alkali	≤ 1.0%	<b>&lt; 1.0%</b>	MEETS FCC
Arsenic	< 3 ppm	<b>0.16 ppm</b>	MEETS FCC
Lead	≤ 5 ppm	<b>1.17 ppm</b>	MEETS FCC

Respectfully submitted,

*Ronald A. Schnitzer*  
Ronald A. Schnitzer

Director

*Poston*  
1-31-05



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Date Reported: 1/24/05  
Lab Number: 05,019,c,302  
Page: 3 of 3

Product Identification Luzenac® Guangxi #2  
Grind Date 1/18/2005  
Ship Name M.V. TAI CHANG Arrival Date: 12/14/04

<u>ANALYTE</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>	<u>INTERPRETATION</u>
Identification			MEETS BP
A.	To Pass Test	<b>Passes Test</b>	
B.	To Pass Test	<b>Passes Test</b>	
C.	To Pass Test	<b>Passes Test</b>	
pH	7.0 to 9.0	<b>8.549</b>	MEETS BP
Water Soluble Substances	Not more than 0.2%	<b>0.02%</b>	MEETS BP
Aluminum	Not more than 2.0%	<b>0.18%</b>	MEETS BP
Calcium	Not more than 0.9%	<b>0.42%</b>	MEETS BP
Iron	Not more than 0.25%	<b>0.064%</b>	MEETS BP
Magnesium	17.0% to 19.5%	<b>17.70%</b>	MEETS BP
Lead	Not More than 10 ppm	<b>1.17 ppm</b>	MEETS BP
Loss on Ignition (1075° C)	Not More than 7.0 %	<b>6.19%</b>	MEETS BP
Calcium, Soluble in 1 M Sulfuric Acid	Not more than 0.6%	<b>0.40%</b>	MEETS BP
Calcium, Insoluble in 1 M Sulfuric Acid	Not more than 500 ppm	<b>237 ppm</b>	MEETS BP
Iron, Soluble in 1 M Sulfuric Acid	Not more than 250 ppm	<b>68 ppm</b>	MEETS BP
Magnesium, Soluble in 1 M Sulfuric Acid	Not more than 0.4%	<b>0.17%</b>	MEETS BP
Carbonate	To Pass Test	<b>Passes Test</b>	MEETS BP
Chloride	Not mmore than 140 ppm	<b>Less than 140 ppm</b>	MEETS BP
Loss on Drying	Not more than 1.0%	<b>0.16%</b>	MEETS BP
Microbial Limits / Total Bacteria Count	Not More than 100 per g	<b>&lt; 10 per g</b>	MEETS BP

Respectfully submitted,

*Ronald A. Schnitzer*  
Ronald A. Schnitzer  
Director

*J. Poston*  
1-31-05



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## Certificate of Laboratory Analysis

Luzenac America  
John Poston  
17509 Van Road  
Houston, TX 77049

Date Received: 3/15/05  
Date Reported: 3/21/05  
Lab Number: 05,074,k,201  
Page: 1 of 3

Product Identification  
Grind Date  
Ship Name

Luzenac® Guangxi #1<sup>2</sup>  
3/9/05  
~~M.V. Great Century~~

*M.V. ROSE*  
*JDP*  
*4/6/05*

Arrival Date: 2/22/05

<u>ANALYTE</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>	<u>INTERPRETATION</u>
Identification	To Pass Test	<b>Passes Test</b>	MEETS USP
Loss on Ignition (1000° C)	< 6.5%	<b>6.14%</b>	MEETS USP
Acid-Soluble Substances	≤ 2.0%	<b>1.42%</b>	MEETS USP
Reaction and Soluble Substances	≤ 0.1%	<b>0.057%</b>	MEETS USP
Water Soluble Iron	To Pass Test	<b>Passes Test</b>	MEETS USP
Arsenic	< 3 ppm	<b>0.15 ppm</b>	MEETS USP
Heavy Metals	< 0.004%	<b>&lt; 40 ppm</b>	MEETS USP
Lead	≤ 0.001%	<b>2.68 ppm</b>	MEETS USP
Microbial Limits			
Total Bacteria Count	≤ 500 per g	<b>&lt; 10 per g</b>	MEETS USP
Production/Asbestos	To Pass Test	<b>Passes Test</b>	MEETS PhEur
Identification			
A. IR Test	To Pass Test	<b>Passes Test</b>	MEETS PhEur
B.	To Pass Test	<b>Passes Test</b>	MEETS PhEur
C.	To Pass Test	<b>Passes Test</b>	MEETS PhEur
pH	7.0 to 9.0	<b>8.771</b>	MEETS PhEur
Loss on Ignition (1075° C)	< 7.0%	<b>6.20%</b>	MEETS PhEur
Water Soluble Substances	≤ 0.2%	<b>0.024%</b>	MEETS PhEur
Iron	< 0.25%	<b>0.053%</b>	MEETS PhEur
Aluminum	< 2.0%	<b>0.14%</b>	MEETS PhEur
Calcium	< 0.9%	<b>0.41%</b>	MEETS PhEur
Lead	≤ 10 ppm	<b>2.68 ppm</b>	MEETS PhEur
Magnesium	17.0% - 19.5%	<b>17.20%</b>	MEETS PhEur
Microbial Limits			
Total Bacteria Count	≤ 1000 per g	<b>&lt; 10 per g</b>	MEETS PhEur
Microbial Limits / Fungi Count	≤ 100 per g	<b>&lt; 10 per g</b>	MEETS PhEur

Respectfully submitted,

*Ronald A. Schnitzer*  
Ronald A. Schnitzer  
Director

*Poston*  
*4/6/05*



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Date Received: 3/15/05  
Date Reported: 3/21/05  
Lab Number: 05,074,k,201  
Page: 2 of 3

Product Identification  
Grind Date  
Ship Name

Luzenac® Guangxi #1 <sup>2</sup> *JP 4/6/05*  
3/9/05 *R&D ROSE*  
M.V. ~~Great Century~~ Arrival Date: 2/22/05

<u>ANALYTE</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>	<u>INTERPRETATION</u>
Identification			
1	To Pass Test	<b>Passes Test</b>	MEETS JP XIII
2	To Pass Test	<b>Passes Test</b>	MEETS JP XIII
Loss on Ignition (450°-550° C)	< 5.0%	<b>4.92%</b>	MEETS JP XIII
Acid or Alkali	Neutral	<b>Neutral</b>	MEETS JP XIII
Acid Soluble Substances	≤ 2.0%	<b>1.42%</b>	MEETS JP XIII
Water Soluble Substances	≤ 4.0 mg	<b>1.32 mg</b>	MEETS JP XIII
Iron Soluble in Water	To Pass Test	<b>Passes Test</b>	MEETS JP XIII
Arsenic	< 4 ppm	<b>0.15 ppm</b>	MEETS JP XIII
Identification			
A.	To Pass Test	<b>Passes Test</b>	MEETS FCC
B.	To Pass Test	<b>Passes Test</b>	MEETS FCC
Loss on Ignition (800° C)	< 6.0%	<b>5.88%</b>	MEETS FCC
Loss on Drying (105° C)	< 0.5%	<b>0.11%</b>	MEETS FCC
Acid Soluble Substances	≤ 2.5%	<b>1.42%</b>	MEETS FCC
Soluble Salts	≤ 0.2%	<b>0.071%</b>	MEETS FCC
Free Alkali	≤ 1.0%	<b>&lt; 1.0%</b>	MEETS FCC
Arsenic	< 3 ppm	<b>0.15 ppm</b>	MEETS FCC
Lead	≤ 5 ppm	<b>2.68 ppm</b>	MEETS FCC

Respectfully submitted,

*Ronald A. Schnitzer*  
Ronald A. Schnitzer  
Director

*JP 4/6/05*



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Lab Number: 05,074,k,201  
Page: 3 of 3

Product Identification  
Grind Date  
Ship Name

Luzenac® Guangxi #1  
3/9/05  
M.V. Great Century

Arrival Date: 2/22/05

*2 JAP 4/16/05*

*REG ROSE*

ANALYTE                                      SPECIFICATION                                      RESULTS                                      INTERPRETATION

<u>ANALYTE</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>	<u>INTERPRETATION</u>
Identification			MEETS BP
A.	To Pass Test	<b>Passes Test</b>	
B.	To Pass Test	<b>Passes Test</b>	
C.	To Pass Test	<b>Passes Test</b>	
pH	7.0 to 9.0	<b>8.771</b>	MEETS BP
Water Soluble Substances	Not more than 0.2%	<b>0.02%</b>	MEETS BP
Aluminum	Not more than 2.0%	<b>0.14%</b>	MEETS BP
Calcium	Not more than 0.9%	<b>0.41%</b>	MEETS BP
Iron	Not more than 0.25%	<b>0.053%</b>	MEETS BP
Magnesium	17.0% to 19.5%	<b>17.20%</b>	MEETS BP
Lead	Not More than 10 ppm	<b>2.68 ppm</b>	MEETS BP
Loss on Ignition (1075° C)	Not More than 7.0 %	<b>6.20%</b>	MEETS BP
Calcium, Soluble in 1 M Sulfuric Acid	Not more than 0.6%	<b>0.40%</b>	MEETS BP
Calcium, Insoluble in 1 M Sulfuric Acid	Not more than 500 ppm	<b>309 ppm</b>	MEETS BP
Iron, Soluble in 1 M Sulfuric Acid	Not more than 250 ppm	<b>54 ppm</b>	MEETS BP
Magnesium, Soluble in 1 M Sulfuric Acid	Not more than 0.4%	<b>0.16%</b>	MEETS BP
Carbonate	To Pass Test	<b>Passes Test</b>	MEETS BP
Chloride	Not mmore than 140 ppm	<b>Less than 140 ppm</b>	MEETS BP
Loss on Drying	Not more than 1.0%	<b>0.11%</b>	MEETS BP
Microbial Limits / Total Bacteria Count	Not More than 100 per g	<b>&lt; 10 per g</b>	MEETS BP

Respectfully submitted,  
*Ronald A. Schnitzer*  
Ronald A. Schnitzer  
Director

*JAP 4/16/05*