

# LIFTMODE

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## S & N LABS

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## CERTIFICATE OF ANALYSIS

12 April 2021

Job Number:	24832a
PO Number:	verbal

### Agmatine Sulfate

(1-Amino-4-guanidinobutane sulfate salt)

Material Lot #: 631710004      Testing Date: 04/09/2021  
Country of Origin: China      Retesting Date: 04/06/2024

Analysis	Claim	Result
Agmatine Sulfate	≥99.0%	99.1%

Test	Specification	Result
Appearance	White crystalline powder	Complies
Identification	Complies with standard retention time	Complies
Loss on Drying	≤0.5%	0.35%
Residue on Ignition	≤0.5%	0.27%
Heavy Metals	≤10 ppm	≤10 ppm
Lead	≤1.0 ppm	Not detected
Mercury	≤1.0 ppm	Not detected
Cadmium	≤1.0 ppm	Not detected
Arsenic	≤1.0 ppm	≤1 ppm
Individual Impurities	≤0.5%	0.16%
Total Impurities	≤1.0%	0.31%
Assay	≥98.0%	99.1%
Total Plate Count	≤1000 cfu/g	Complies
Yeast and mold	≤100 cfu/g	Complies
E.coli	Negative	Complies
Salmonella	Negative	Complies

### REPORT OF ANALYSIS

One jar labeled "Agmatine Sulfate #631710004" was received on 5 March 2021. The powder in the bag was analyzed for specific component using high pressure liquid chromatography (HPLC). The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Agmatine Sulfate #631710004	99.8

Neil E. Spingam, Ph.D.  
President

Agmatine Sulfate should be stored at or below room temperature in a tightly sealed durable container.  
Agmatine Sulfate should be protected from excess heat, direct sunlight, excess humidity and moisture.  
Agmatine Sulfate has a stable shelf life of 3 years from the date of testing when properly stored.



Colmaric Analyticals, LLC

812 Meadowlark Lane, Goodlettsville, TN 37072  
Telephone: 615-239-8064

Certificate of Analysis

Synaptent LLC  
47 W Polk Street, 100-241  
Chicago, IL 60654

Product Name	Agmatine Sulfate	Product Lot Number	631710004
Report Date	04/25/18	Laboratory Number	10128

Test	Method	Result
Identification	NMR	Conforms
Assay	HPLC	99.5%
Lead	ICP-MS USP <730>	0.015 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	0.013 ppm
Mercury	ICP-MS USP <730>	0.050 ppm
Total Aerobic Count	BioLumix	<100 CFU/g
Yeast and Mold	BioLumix	<100 CFU/g
E. Coli	BioLumix	<10 CFU/g
Coliform	BioLumix	<10 CFU/g
Salmonella	BioLumix	Negative

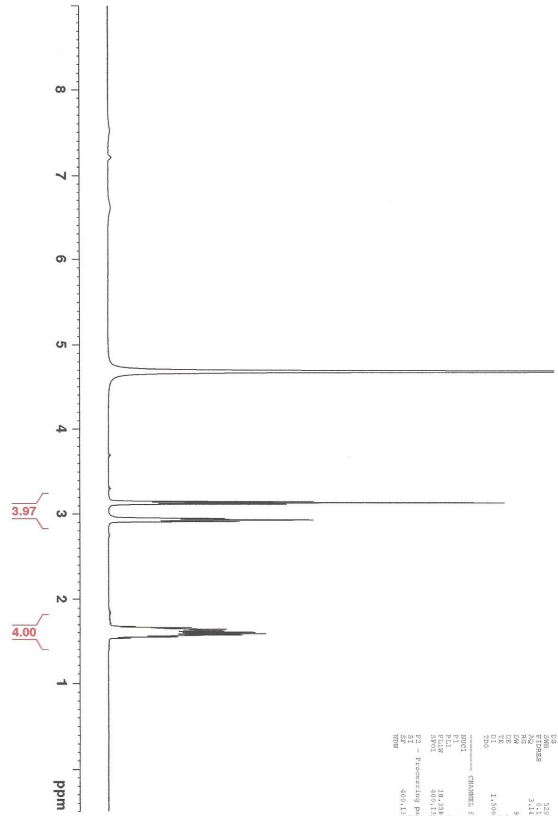
Jennifer Smith  
QA Auditor

04/25/2018  
Date

4.25.18

The results stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

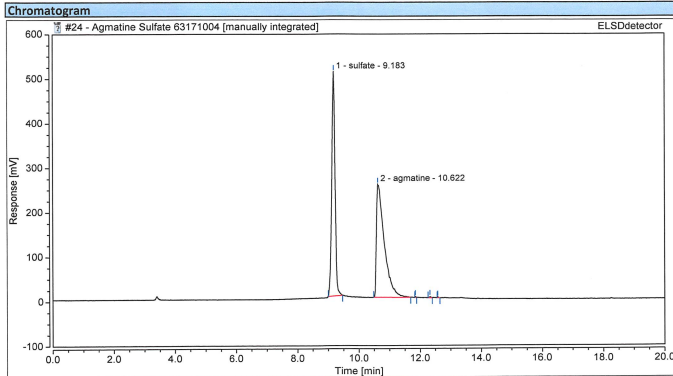
<sup>1</sup>H NMR of agmatine sulfate  
10128  
Colmaric Analytical  
04-24-18



Customer: Synaptent LLC  
Sample Name: Agmatine Sulfate  
Sample ID: 10128  
Date: 04/25/2018  
Time: 10:11:13  
Operator: JSMITH  
Inj Volume: 10.00  
Inj Speed: 10.00  
Flow Rate: 1.000  
Wavelength: 210.0  
Bandwidth: 4  
Dilution Factor: 1.0000  
Sample Weight: 1.0000  
Injection Date/Time: 09/Apr/21 18:00

Chromatogram and Results

<b>Injection Details</b>	Agmatine Sulfate 631710004	Run Time (min): 20.00
Vial Number:	RE2	Injection Volume: 10.00
Injection Type:	Unknown	Channel: ELSDdetector
Calibration Level:		Wavelength: 210.0
Instrument Method:	CD HILIC 20min	Bandwidth: 4
Processing Method:	Processing Method	Dilution Factor: 1.0000
Injection Date/Time:	09/Apr/21 18:00	Sample Weight: 1.0000



No.	Peak Name	Retention Time [min]	Area [mV*min]	Height [mV]	Relative Area %	Relative Height %	Amount
1	sulfate	9.183	61.804	504.062	45.08	65.83	n.a.
2	agmatine	10.622	75.189	254.378	54.75	33.22	n.a.
3		11.842	0.060	2.204	0.04	0.29	n.a.
4		12.315	0.122	3.272	0.09	0.43	n.a.
5		12.577	0.048	1.740	0.03	0.23	n.a.
<b>Total:</b>			<b>137.323</b>	<b>765.656</b>	<b>100.00</b>	<b>100.00</b>	