LIFTMODE

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CERTIFICATE OF ANALYSIS

Choline L-Bitartrate

(2-Hydroxy-N,N,N-trimethylethanaminium 3-carboxy-2,3-dihydroxypropanoate)

Material Lot #:20181009Manufacture Date:10/08/2018Country of Origin:ChinaTest Date:07/29/2019

Re-Test Date: 07/26/2022

Analysis Claim Result

Choline L-Bitartrate ≥98.0% 98.37%

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay	≥98.0%	98.37%
Loss on Drying	<u>≤</u> 0.5%	0.06%
pH	3.0-4.0	3.54
Specific Rotation	+17.5°-+18.5°	+17.9°
Residue on Ignition	<u>≤</u> 0.1%	0.02%
Silicon Dioxide	0.8~1.2%	0.92%
Heavy Metals	≤10 ppm	Conforms
Arsenic	<u><</u> 2 ppm	Conforms
Lead	<u><</u> 0.3 ppm	Conforms
Cadmium	<0.2 ppm	Conforms
Mercury	<u>≤</u> 0.1 ppm	Conforms
1,4 Dioxane	<u><</u> 10 ppm	Conforms
Total Amines	≤10 ppm	Conforms
Total Plate Count	≤1,000 cfu/g	Conforms
Yeast & Mold	<100 cfu/g	Conforms
E.coli	Not Detected	Conforms
Salmonella	Not Detected	Conforms
Staphylococcus	Not Detected	Conforms

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

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Choline L-Bitartate

Main Benefits

- Choline is a natural precursor to the neurotransmitter Acetylcholine. L-Bitartrate has been found to vastly increase the bio-availability of Choline.
- Acetylcholine plays an important role in mood, attention, cognitive function, and motivation.
- Furthermore, studies indicate that Acetylcholine is the neurotransmitter responsible for other basic bodily functions.

Main Cautions

- Several studies indicate that Choline L-Bitartrate has minimal adverse side effects and is generally safe for consumption within the recommended serving size.
- Excessive amounts of Choline have been linked to drops in blood pressure, sweating, diarrhea, nausea, and vomiting.
- Do not use this supplement without first consulting with your doctor if you are taking any medication or have any medical condition.

Usage Tips

- A 1.0 cc measuring scoop is included. Two rounded scoops contains approximately one serving, or approximately 600mg of Choline L-Bitartrate. As a dietary supplement, take 1 serving 1-2 times per day. Start at the lower suggested quantity to assess response.
- The negative effects of Choline L-Bitartrate are dependent on the amount taken. Use of a scale with 10mg/0.01g accuracy or better is highly recommended.
- Use of capsules, or mixing with tea, yogurt, apple sauce, or oatmeal may help make the powder easier to tolerate.
- This supplement is not intended to treat, diagnose, prevent, or cure any diseases. Consult your healthcare provider before use if you have a medical condition or if you are taking any prescription medications.
- It is safe to stack Choline L-Bitartrate with other supplements, so long as the amount consumed does not exceed the suggested serving size.
- The benefits of Choline L-Bitartrate are most effective when they are supported by a healthy diet and plenty of exercise.



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Certificate of Analysis

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

Product Name	Choline L-Bitartrate	Product Lot Number	C20181009
Report Date	07/29/2019	Laboratory Number	12348

Description	Method	Result
Identification	Proton NMR	Conforms to structure
Assay	USP Titration	99.2%
Lead	ICP-MS USP <730>	0.013 ppm
Arsenic	ICP-MS USP <730>	<0.0001 ppm
Cadmium	ICP-MS USP <730>	0.018 ppm
Mercury	ICP-MS USP <730>	0.002 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

Collin Thomas MAL
Laboratory Manager

07/29/2019 7 /24 /19
Date

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