

**LIFTMODE** 47 W. Polk St. STE 100-241 Chicago, IL 60605

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## CERTIFICATE OF ANALYSIS

## L-Tetrahydropalmatine (Cordyalis Yanhusuo W.T. Wang)

Material Lot #: 20170515 Manufacture Date: 05/15/2017 Test Date: 01/24/2020 China Country of Origin: Re-Test Date: 01/21/2023

**Analysis** Claim Result

≥98.0% L-THP 99.0%

| Test              | Specification                    | Result   |
|-------------------|----------------------------------|----------|
|                   | 00.004                           |          |
| Assay             | <u>&gt;</u> 98.0%                | 99.0%    |
| Appearance        | White to Light green crystalline | Complies |
| Odor              | No Odor                          | Complies |
| Taste             | No Taste                         | Complies |
| Loss on Drying    | <u>&lt;</u> 9.0%                 | 4.2%     |
| Heavy Metals      | <u>&lt;</u> 10ppm.               | Complies |
| Total Plate Count | <u>≤</u> 10000/g                 | Complies |
| Yeast & Mold      | <u>≤</u> 1000/g                  | Complies |
| Salmonella        | Negative                         | Complies |
| E.coli            | Negative                         | Complies |
| Rotation          | -290° to -300°                   | -293°    |

L-Tetrahydropalmatine should be stored at or below room temperature in a tightly sealed durable container.

L-Tetrahydropalmatine should be protected from excess heat, direct sunlight, excess humidity and moisture.

L-Tetrahydropalmatine has a stable shelf life of 3 years from the date of manufacture when properly stored.



812 Meadow Lark Lane, Godlettsville, TN 37072 Telephone: 615-239-8604

## Certificate of Analysis

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

| Product Name | L-Tetrahydropalmitine | Client Lot Number | 20170515 |
|--------------|-----------------------|-------------------|----------|
| Report Date  | 01/24/20              | Laboratory Number | 13594    |

| Test                | Method           | Result        |
|---------------------|------------------|---------------|
| Identification      | H-NMR            | Conforms      |
| Assay               | HPLC             | 99.0%         |
| Lead                | ICP-MS USP <730> | 0.030 ppm     |
| Arsenic             | ICP-MS USP <730> | <0.0001 ppm   |
| Cadmium             | ICP-MS USP <730> | 0.005 ppm     |
| Mercury             | ICP-MS USP <730> | 0.006 ppm     |
| Total Aerobic count | Biolumix         | <1, 000 cfu/g |
| Yeast and Mold      | Biolumix         | <100 cfu/g    |
| E. Coli             | Biolumix         | Negative      |
| Coliform            | Biolumix         | <10 cfu/g     |
| Salmonella          | Biolumix         | Negative      |

Collin Thomas MX Laboratory Manager

01/24/2020 120 20

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## Certificate of Analysis

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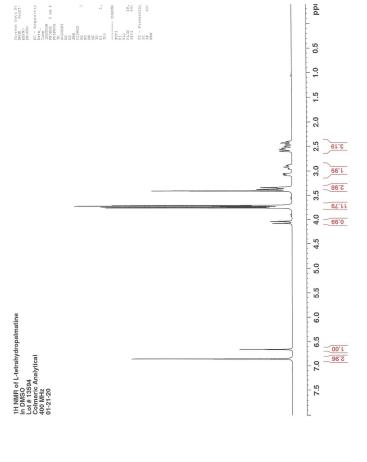
| Product Name | L-Tetrahydropalmatine | Product Lot # | 20170515 |
|--------------|-----------------------|---------------|----------|
| Report Date  | 09/20/2017            | Lab#          | 9207     |

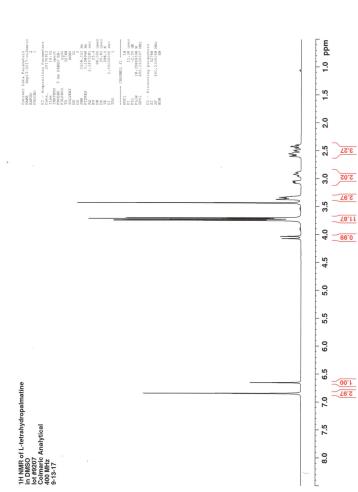
| Description       | Test Method     | Results   |
|-------------------|-----------------|-----------|
| Identification    | 1H NMR          | Conforms  |
| Assay             | HPLC            | 99%       |
| Lead              | ICP-MS USP<730> | 0.028ppm  |
| Arsenic           | ICP-MS USP<730> | 0.071ppm  |
| Cadmium           | ICP-MS USP<730> | <0.001ppm |
| Mercury           | ICP-MS USP<730> | <0.001ppm |
| Total Plate Count | BioLumix        | <100CFU/g |
| Yeast and Mold    | BioLumix        | <100CFU/g |
| Salmonella        | BioLumix        | Negative  |
| Coliform          | BioLumix        | <10CFU/g  |
| E. coli           | BioLumix        | Negative  |



09/20/2017 9/20/17 Date

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7.5

8.0