

# LIFTMODE

LIFTMODE  
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## CERTIFICATE OF ANALYSIS

### Apigenin

(*Chamaemelum nobile extract*)

Material Lot #: 20456  
 Country of Origin: China  
 Analysis Date: 10/12/2020  
 Retesting Date: 10/12/2023

| Analysis            | Claim                | Result        |
|---------------------|----------------------|---------------|
| Apigenin            | ≥98%                 | 98.3%         |
| <b>Test</b>         | <b>Specification</b> | <b>Result</b> |
| HNMR ID             | Conforms             | Conforms      |
| HPLC Assay          | ≥98%                 | 98.3%         |
| ICP-MS              |                      |               |
| Arsenic             | ≤1.5 ppm             | <0.001 ppm    |
| Lead                | ≤0.5 ppm             | 0.045 ppm     |
| Cadmium             | ≤0.5 ppm             | <0.001 ppm    |
| Mercury             | ≤0.5 ppm             | 0.025 ppm     |
| Total Aerobic Count | <1000 cfu/g          | Conforms      |
| Yeast & Mold        | <100 cfu/g           | Conforms      |
| Coliform            | <10 cfu/g            | Conforms      |
| <i>E.coli</i>       | Negative             | Conforms      |
| Salmonella          | Negative             | Conforms      |

Apigenin should be stored at or below room temperature in a tightly sealed durable container. Apigenin should be protected from excess heat, direct sunlight, excess humidity, and moisture. Apigenin has a retesting period of 3 years from the date of analysis when properly stored.

## Apigenin



### Main Benefits

- Apigenin is a flavonoid found in many plants, though it is the most abundant flavonoid in Chamomile (*Matricaria chamomilla*).
- Apigenin is known for its relaxing, calming, and soothing effects. It binds to the GABA-A receptor and may enhance GABAergic activity.
- Apigenin is also a potent anti-inflammatory (especially in the gut) and may also have its own cognitive enhancing effects through BDNF (Brain Derived Neurotrophic Factor) promoting effects.

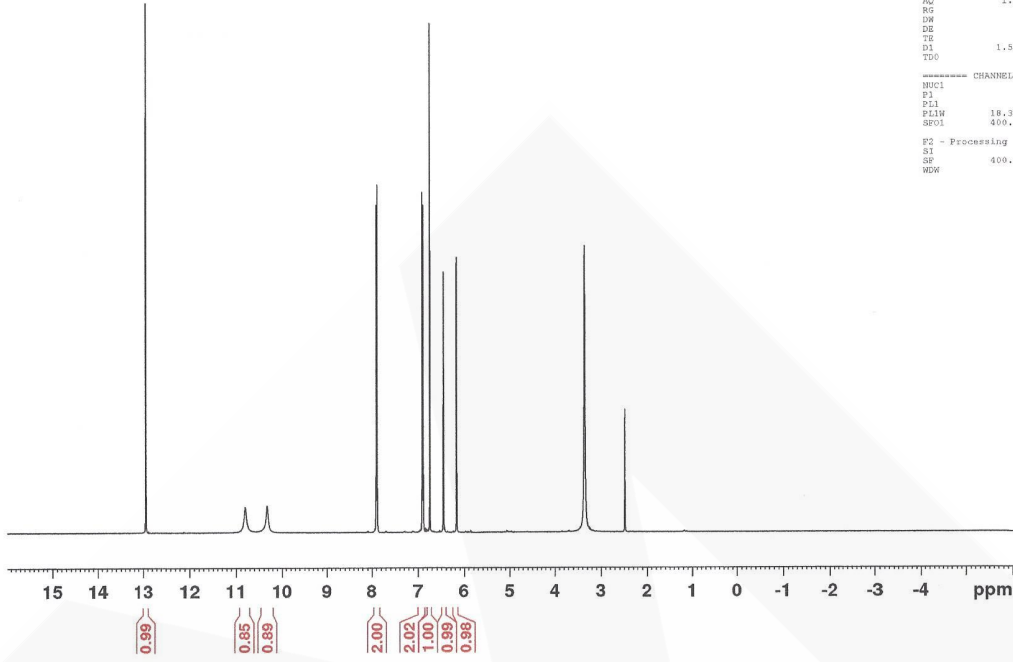
### Main Cautions

- Apigenin is a potent CYP450 enzyme inhibitor. It may slow the metabolism of other supplements and alter the concentration and duration of certain prescription medications.
- Apigenin is prevalent in many foods and teas and is generally well tolerated.
- Consult your healthcare provider before use if you have a medical condition or if you are taking any prescription medications.

### Usage Tips

- A 0.625cc (1/8th teaspoon) measuring scoop is included. One level scoop contains one serving of approximately **250mg Apigenin**. As a dietary supplement, take 1 serving up to 2 times per day. Start at the lower suggested quantity to assess response.
- Due to the low water solubility of flavonoids such as Apigenin, sublingual administration is recommended.
- Taking other flavonoids or Piperine with Apigenin may extend the half-life or increase absorption.
- This dietary 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 Apigenin with other supplements as long as the amount consumed does not exceed the suggested serving size.
- The benefits of Apigenin are most effective when they are supported by a healthy diet and plenty of exercise.

1H NMR of Apigenin  
in DMSO  
Lot # 20080812  
Colmaric Analytical  
400 MHz  
8-20-20



```

Current Data Parameters
NAME      Aug20-2020-colmaric
EXPNO    1
PROCNO   1

F2 - Acquisition Parameters
Date_    20200820
Time     11:54
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       32768
SOLVENT  DMSO
NS       16
DS       0
SFO      8802.817 Hz
FIDRES   0.248641 Hz
AQ       1.8612224 sec
RG       181
DR       56.800 usec
DE       16.26 usec
TE       298.0 K
D1       1.5000000 sec
TDO      1

----- CHANNEL f1 -----
NUC1     1H
P1       11.38 usec
PL1      2.50 dB
P1PM     18.35893338 #
SFO1     400.1320087 MHz

F2 - Processing parameters
SI       32768
SF       400.1300063 MHz
WDW      EM
  
```



## Certificate of Analysis

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

**Sample Collected By: Client**

|              |          |                    |          |
|--------------|----------|--------------------|----------|
| Product Name | Apigenin | Product Lot Number | 20456    |
| Report Date  | 10/12/20 | Laboratory Number  | 20080812 |

| Description         | Method   | Specification | Results      |
|---------------------|----------|---------------|--------------|
| Identification      | H-NMR    | Conforms      | Conforms     |
| Assay               | HPLC     | NLT 98%       | 98.3%        |
| Lead                | ICP-MS   | <1.0 ppm      | 0.045 ppm    |
| Arsenic             | ICP-MS   | <1.0 ppm      | <0.001 ppm   |
| Cadmium             | ICP-MS   | <1.0 ppm      | <0.001 ppm   |
| Mercury             | ICP-MS   | <1.0 ppm      | 0.025 ppm    |
| Total Aerobic Count | Biolumix | <1,000 cfu/g  | <1,000 cfu/g |
| Yeast & Mold        | Biolumix | <100 cfu/g    | <100 cfu/g   |
| E. Coli             | Biolumix | Absent        | Absent       |
| Coliform            | Biolumix | <10 cfu/g     | <10 cfu/g    |
| Salmonella          | Biolumix | Absent        | Absent       |

*Collin Thomas*  
10/12/2020 10:12:12  
Date

*Collin Thomas*  
Laboratory Manager

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