# Certificate of Analysis

47 W Polk St. STE 100-241
Chicago, IL 60605
liftmode@liftmode.com

LiftMode

# 7,8-DHF

7,8-Dihyrdoxyflavone

Material Lot #: 20220907
Country of Origin: China

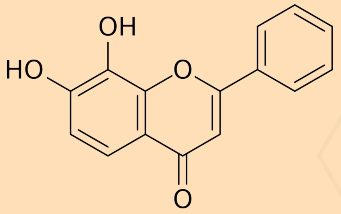
Test Date: 09-14-2022
Re-Test Date: 09-11-2025

| Analysis | Claim | Result |
|---|---|---|
| 7,8-DHF | ≥95% | 99.7% |

| Test | Specification | Result |
|---|---|---|
| 7,8-DHF (HPLC) | ≥95% | 99.7% |
| Lead | ≤0.5ppm | 0.215 ppm |
| Mercury | ≤0.5ppm | <0.005 ppm |
| Cadmium | ≤0.5ppm | <0.005 ppm |
| Arsenic | ≤0.5 ppm | <0.01 ppm |
| Total Aerobic Plate Count | <1000 cfu/g | <10 cfu/g |
| Yeast | <100 cfu/g | <10 cfu/g |
| Moulds | <100 cfu/g | <10 cfu/g |
| Escherichia coli | <10 cfu/g | <10 cfu/g |
| Coliforms | <10 cfu/g | <10 cfu/g |
| Salmonella | Negative | Negative |
| Staphylococcus aureus | <10 cfu/g | <10 cfu/g |

7,8-DHF should be stored at or below room temperature in a tightly sealed durable container.
7,8-DHF should be protected from excess heat, direct sunlight, excess humidity, and moisture.
7,8-DHF has a retesting period of 3 years from the date of analysis when properly stored.

## 7,8-DHF




## Main Benefits

• 7,8-DHF is believed to activate the (TrkB), the usual target receptor of (BDNF). BDNF is a peptide and essential contributor to brain function because it promotes neuronal and synaptic growth.

• Anecdotally, 7,8 – DHF may mimic the effects of BDNF. Studies have shown it may have similar neuroprotective effects on the brain as BDNF which include improved memory, reduced stress, and repair of damaged neurons.

## Main Cautions

• 7,8-DHF is generally recognized as safe within the suggested serving size range.

• Excessive 7,8-DHF can result in overstimulation, restlessness, dizziness, nausea, irritability, and trouble sleeping.

• Do not use this supplement without first consulting your doctor if you are taking any medication or have any underlying medical conditions. Due to lack of insufficient data regarding the safety of this product for pregnant or

## Usage Tips

• A 0.15cc measuring scoop is included. One rounded scoop contains approximately one serving of **40mg 7,8-DHF.** As a dietary supplement, take 1 serving up to 2 times per day. Start at the lower suggested quantity to assess response.

• The negative effects of this supplement are dependent on the amount taken. Use of a scale with 1mg/0.001g accuracy or better is 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 7,8-DHF with other supplements as long as the amount consumed does not exceed the suggested serving size.

• The benefits of 7,8-DHF are most effective when they are supported by a healthy diet and plenty of exercise.

eurofins | Eurofins Microbiology Laboratories (New Berlin)

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Synaptent

Quality Control Department (COA)
425 BARCLAY BOULEVARD
Lincolnshire, IL 60069

## ANALYTICAL REPORT

AR-22-QH-052825-01

**Client Code:** QH0000902
**PO#:** 20220907

**Received On:** 09Sep2022
**Reported On:** 16Sep2022

| | | | |
|---|---|---|---|
| **Eurofins Sample Code:** | 477-2022-09090097 | **Sample Registration Date:** | 09Sep2022 |
| **Client Sample Code:** | 20220907 | **Condition Upon Receipt:** | acceptable, 21.1°C |
| **Sample Description:** | 7,8-Dihydroxyflavone (7,8-DHF) | **Sample Reference:** | |

| **FS001 - Heavy Metals (As, Cd, Hg, and Pb)** | **Reference** | **Accreditation** | **Completed** | **Sub** |
|---|---|---|---|---|
| | AOAC 2011.19, 993.14 and 2015.01 (modified) | | 16Sep2022 | 1 |

| **Parameter** | **Result** |
|---|---|
| Arsenic | <10.0 ppb |
| Cadmium | <5.00 ppb |
| Lead | 215 ppb |
| Mercury | <5.00 ppb |

| **UM8VD - Total Coliforms - CMMEF Chapter 9.933** | **Reference** | **Accreditation** | **Completed** |
|---|---|---|---|
| | CMMEF Chapter 9.933 | ISO/IEC 17025:2017 A2LA 3329.07 | 10Sep2022 |

| **Parameter** | **Result** |
|---|---|
| Coliforms | < 10 cfu/g |
| **Parameter** | **Result** |
| Escherichia coli | < 10 cfu/g |

| **UMDTC - Salmonella species - AOAC-RI 121501** | **Reference** | **Accreditation** | **Completed** |
|---|---|---|---|
| | AOAC-RI 121501 | ISO/IEC 17025:2017 A2LA 3329.07 | 10Sep2022 |

| **Parameter** | **Result** |
|---|---|
| Salmonella | Not Detected per 25 g |

| **UMHBM - Staphylococcus aureus - BAM Chapter 12** | **Reference** | **Accreditation** | **Completed** |
|---|---|---|---|
| | BAM Chapter 12 | ISO/IEC 17025:2017 A2LA 3329.07 | 12Sep2022 |

| **Parameter** | **Result** |
|---|---|
| Staphylococcus aureus | < 10 cfu/g |



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ANALYTICAL REPORT

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| | | | |
|---|---|---|---|
| **Eurofins Sample Code:** | 477-2022-09090097 | **Sample Registration Date:** | 09Sep2022 |
| **Client Sample Code:** | 20220907 | **Condition Upon Receipt:** | acceptable, 21.1°C |
| **Sample Description:** | 7,8-Dihydroxyflavone (7,8-DHF) | **Sample Reference:** | |

| **UMIB1 - Yeast - FDA BAM Chapter 18 mod.** | **Reference** | **Accreditation** | **Completed** |
|---|---|---|---|
| | FDA BAM Chapter 18 mod. | ISO/IEC 17025:2017 A2LA 3329.07 | 14Sep2022 |

| **Parameter** | **Result** |
|---|---|
| Yeast | < 10 cfu/g |
| **Parameter** | **Result** |
| Moulds | < 10 cfu/g |

| **UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72** | **Reference** | **Accreditation** | **Completed** |
|---|---|---|---|
| | CMMEF Chapter 8.72 | ISO/IEC 17025:2017 A2LA 3329.07 | 12Sep2022 |

| **Parameter** | **Result** |
|---|---|
| Aerobic Plate Count | < 10 cfu/g |

Subcontracting partners:
1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Bryan Dieckelman
Laboratory Operations Manager





eurofins | SN Special Analysis West

23 September 2022

| | |
|---|---|
| Job Number: | 26204a |
| PO Number: | Verbal |

Synaptent LLC
47 West Polk Street #100-241
Chicago, Illinois 60605

## REPORT OF ANALYSIS

One blue container with powder labeled "7,8-DHF 20220907" was received on 12 September 2022. A portion of the powder from within the container was analyzed for purity using high pressure liquid chromatography (HPLC). Based on ultraviolet (UV) detection at 195 nm the chromatographic purity of the sample was found to be 99.7%.

The chromatogram is enclosed for your reference.

Chris French, PhD
Principal Scientist

2021 East Fourth Street, Suite 112 Santa Ana, California 92705 (714) 543-2211

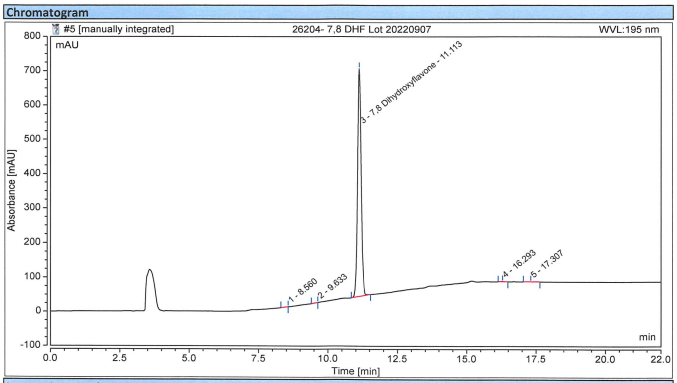


### Chromatogram and Results

**Injection Details**

| | | | |
|---|---|---|---|
| *Injection Name:* | **26204- 7,8 DHF Lot 20220907** | *Run Time (min):* | **25.00** |
| *Vial Number:* | **RA7** | *Injection Volume:* | **10.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **195** |
| *Instrument Method:* | **AD 250mm MaxRP 25min Purity Method** | *Bandwidth:* | **5** |
| *Processing Method:* | **Processing Method** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/22 12:50** | *Sample Weight:* | **1.0000** |

**Chromatogram**




**Integration Results**

| No. | Peak Name | Retention Time min | Area mAU*min | Height mAU | Relative Area % | Relative Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 8.560 | 0.039 | 0.000 | 0.04 | 0.00 | n.a. |
| 2 | | 9.633 | 0.030 | 0.000 | 0.03 | 0.00 | n.a. |
| 3 | 7,8 Dihydroxyflavone | 11.113 | 100.100 | 661.892 | 99.70 | 99.83 | n.a. |
| 4 | | 16.293 | 0.133 | 0.779 | 0.13 | 0.12 | n.a. |
| 5 | | 17.307 | 0.096 | 0.318 | 0.10 | 0.05 | n.a. |
| **Total:** | | | **100.398** | **662.989** | **100.00** | **100.00** | |