



Certificate of Analysis

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



Ginger Extract

 (*Zingiber officinale* Extract)

Material Lot #: 20201016

Test Date: 01/14/2021

Country of Origin: China

Re-Test Date: 01/11/2024

Analysis

Claim

Result

Gingerols

≥ 20%

19.64%

Test/Method

Specification

Result

Lead (ICP-MS)	<1 ppm	Conforms
Arsenic (ICP-MS)	<1 ppm	Conforms
Cadmium (ICP-MS)	<1 ppm	Conforms
Mercury (ICP-MS)	<1 ppm	Conforms
Total Aerobic Plate Count (Biolumix)	<1,000 cfu/g	Conforms
Yeast & Mold (Biolumix)	<100 cfu/g	Conforms
E.Coli (Biolumix)	Absent	Conforms
Coliform (Biolumix)	<10 cfu/g	Conforms
Salmonella (Biolumix)	Absent	Conforms
Gingerols Assay (HPLC)	≥ 20.0%	19.64%

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

Ginger Extract



Main Benefits

- The primary active ingredient in Ginger Extract- Gingerol, is known to hold strong anti-inflammatory and antioxidant properties.
- Studies suggest that Gingerol may be effective in relieving nausea.
- Rat and mice studies indicate that ginger extract may be effective in increasing calorie usage and reducing inflammation caused by an active lifestyle.

Main Cautions

- Ginger Extract is generally recognized as safe within the suggested serving size range.
- Excessive Ginger extract can result in abdominal discomfort, heartburn, diarrhea, and mouth and throat irritation.
- Do not use this supplement without first consulting your doctor if you are taking any medication or have any underlying medical conditions.

Usage Tips

- A 1.0 cc measuring scoop is included. One level scoop contains approximately one serving, or approximately **500mg of Ginger Extract**. As a dietary supplement, take 1-2 servings 1-2 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 10mg/0.01g 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 this supplement with other dietary supplements, so long as the amount consumed does not exceed the suggested serving size.
- The benefits of this supplement are most effective when they are supported by a healthy diet and plenty of exercise.

CERTIFICATE OF ANALYSIS

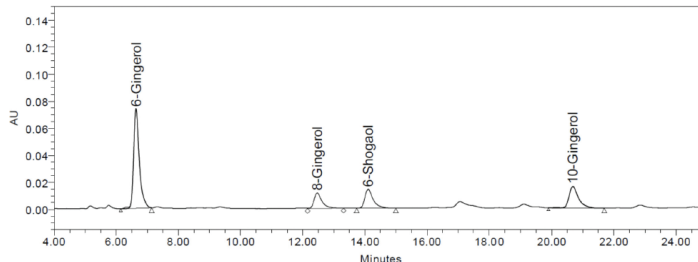


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Report Issued To: Synaptent
47 W. Polk St.
Chicago Illinois 60605

Sample Name: Ginger Extract 20%
Description: Powdered extract; Powder [silver foil pouch]
Lot #: 20201016
AL #: 21011VYO_2
Analysis ID: 148144
Received: 01/11/21

Determination of Gingerols Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
6.7	6-Gingerol	10.273	10.338	10.306	N/A	N/A
12.5	8-Gingerol	2.210	2.430	2.320	N/A	N/A
14.1	6-Shogaol	2.474	2.677	2.575	N/A	N/A
20.7	10-Gingerol	4.422	4.445	4.434	N/A	N/A
	Total	19.380	19.890	19.635	NLT 20%	Pass

Chromatographic Conditions:

Method: ATM-915-0186
Column: AP163 Gemini 5µ C18 110A (150 x 4.6 mm)
Temperature: 35°C
Flow Rate: 1 mL/min
Injection Volume: 20 µL
UV Detection: 282 nm
Mobile Phase: Water
HPLC Instrument: Alliance_4

Sample Preparation:

transferred approximately 20 mg sample to a 25 mL volumetric flask. Added 20 mL methanol and vortexed for 30 seconds. Sonicated for 60 minutes at 50°C. Cooled and filled to volume with methanol. Filtered into vials for analysis.

Report Summary:

Conclusion: This "Ginger Extract 20%" test sample contains an average of 20% of total gingerols as 6-gingerol, 8-gingerol, 6-shogaol and 10-gingerol on the as is basis.
OOS Reference: N/A
Empower Reference: 01321 Pungent Compounds



Digitally signed by Celine Deneuve
Date: 2021.01.14 14:02:57 -08'00'

Analysis Date : 01/14/21 Analyzed By: A Pham

Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void © 2018 Alkemist Labs All Rights Reserved

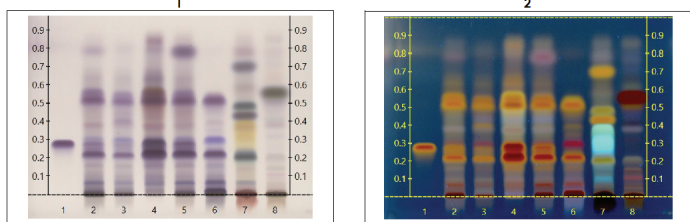
Certificate Issued To:
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Certificate of Analysis: Ginger Extract 20% (20201016)

High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Synaptent
Title: Ginger Extract 20%
Plant Part: root
Sample Received: 01/11/21
Sample Packaging: Foil Pouch
Form of Botanical: powdered extract
Appearance: Powder [silver foil pouch]
Lot Number: (20201016) → Lane 4 (1µl)
Sample: 21011VYO_1
Latin Name: Zingiber officinale Roscoe [Zingiberaceae]
Reference Sample: Lane 2(4µl) [GB21010CR8] Zingiber officinale (root); Lane 3(4µl) [GB22813NRP11] Zingiber officinale (rhizome); Lane 7(4µl) [AG32308SWH] Alpinia officinarum (rhizome); Lane 8(4µl) [19175KOC] Alpinia galanga (root); held at Alkemist Labs, Garden Grove, CA.
Analyst: A. Davis, N. Alenikova, M. Edwards, S. Kabba, N. Hoang, K. Tran, J. Lopez, J. Mares 148221
Sample Preparation: 0.3g±3mL Methanol, sonicate/heat at 50°C for 30 min.
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: toluene: ethyl acetate [7.5/2.5]
Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis [Reich, E., 2007]
(2) Vanillin/Sulfuric, 110°C, 2min, 366nm [Reich, E., 2007]
Reference Standard: Lane 1(2µl) 10-Gingerol [01, XSYN], Methanol [0000206696, VWR]
Reference Source: BTM 715-0021
IDF-SOP-72-01

Comments & Conclusion: Lane 4 is the test sample Ginger Extract 20% (20201016). Lanes 2, 3, 7, 8, are the reference samples used for comparison. This test sample, Ginger Extract 20% (20201016) is consistent with the chromatographic profile of the reference samples of Zingiber officinale, used above. **This test sample Ginger Extract 20% (20201016) has characteristics of Zingiber officinale root.**

NOTE: the above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.



Digitally signed by Khanh Tran
DN: cn=Khanh Tran, o=Alkemist
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email=ktran@alkemist.com, c=US
Date: 2021.02.22 09:56:56 -0800

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 01/15/21

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 20201016. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2021 Alkemist Labs, Inc. All Rights Reserved



Certificate of Analysis

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

Sample Collected By: Client

Product Name	Ginger Extract	Product Lot Number	20201016
Report Date	02/03/21	Laboratory Number	21011674

Description	Method	Specification	Results
Lead	ICP-MS	<1.0 ppm	0.630 ppm
Arsenic	ICP-MS	<1.0 ppm	1.263 ppm
Cadmium	ICP-MS	<1.0 ppm	0.002 ppm
Mercury	ICP-MS	<1.0 ppm	<0.001 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	<10 cfu/g	< 10 cfu/g
Coliform	Biolumix	<10 cfu/g	< 10 cfu/g
Salmonella	Biolumix	Negative	Negative

Collin Thomas
Laboratory Manager

02/03/2021
Date

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