



LIFTMODE
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Chicago, IL 60605

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CERTIFICATE OF ANALYSIS

Kanna Extract (MT55) (*Sceletium tortuosum*)

Material Lot #: 19122016261627 Manufacture Date: 11/15/2019
Country of Origin: South Africa Testing Date: 02/17/2020
Retesting Date: 12/16/2023

Analysis	Claim	Result
Kanna Extract	≥3% Mesembrine	3.6%

Test	Specification	Result
Appearance	Fine Powder	Complies
Active Mesembrine	≥3%	3.6%
Solubility	Soluble in water (20°C = 16g/100ml)	Complies
Moisture	≤3%	3%
Lead	<3.0 mg/kg	Complies
Cadmium	<1.0 mg/kg	Complies
Mercury	<0.1 mg/kg	Complies
Yeast & Mold	<100 cfu/g	Complies
Total aerobic count	<1000 cfu/g	Complies
E.coli	<100 cfu/g	Not detected
Salmonella	Negative	Not detected

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



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

Certificate of Analysis

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

Product Name	Kanna Extract	Client Lot Number	19122016261627
Report Date	02/17/20	Laboratory #	13662

Test	Method	Result
Lead	ICP-MS	0.073 ppm
Arsenic	ICP-MS	<0.0001 ppm
Cadmium	ICP-MS	0.031 ppm
Mercury	ICP-MS	0.019 ppm
Total Aerobic Count	Biolumix	<1,000 cfu/g
Yeast & Mold	Biolumix	<100 cfu/g
E. coli	Biolumix	Negative
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Negative

Collin Thomas
Laboratory Manager

02/17/2020
Date

The result(s) stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

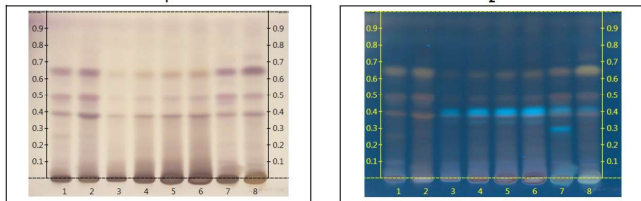
Certificate Issued To:
Synaptent
47 W. Polk St.
Chicago, Illinois 60605



Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
www.Alkemist.com

Certificate of Analysis: Kanna Extract (19122016261627)

High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Synaptent
Title: Kanna Extract
Plant Part: aerial part
Sample Received: 02/03/20
Sample Packaging: Clear Glass Bottle or Jar
Form of Botanical: powdered extract
Appearance: Tan powder
Lot Number: (19122016261627) → Lanes 3(3u), 4(4u), 5(5u), 6(12u)
Sample: 20034VKE_1
Latin Name: *Sceletium tortuosum* [Mesembryanthemaceae]
Reference Sample: Lane 1(8u) [AAU10064(H)] *Sceletium tortuosum* (entire); Lane 2(8u) [AAU24412S(LR2)] *Sceletium tortuosum* (aerial part); Lane 3(8u) [AAU14261(A2)] *Sceletium tortuosum* (herb [leaf, flower, stem]); Lane 8(8u) [AAU15306(A)] *Sceletium tortuosum* (J); held at Alkemist Labs, Garden Grove, CA.
A. Davis, N. Alensdkova, M. Edwards, S. Kobajsi, N. Hoang, K. Tran, J. Lopez, J. Mares 130682
0.3g-3ml, 70% grain Ethanol, sonicate/heat at 50°C for 30 min.
Stationary Phase: Silica gel 60, HPLC plates
Mobile Phase: toluene: diethyl ether: 1,75 M AcCOOH (all conc 1:10) [3.3/3.3/3.3]
Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vs (Reich, E., 2007)
(2) Vanillin/Sulfuric, 110°C, 2min, 36nm (Reich, E., 2007)
Scott, G. and Springfield, E.P. (2004). Pharmaceutical monographs. South African National Biodiversity Institute (ID:SCJP-72-0)

Comments & Conclusions: Lanes 3, 4, 5, 6 are the test sample Kanna Extract (19122016261627) Lanes 1, 2, 7, 8 are the reference samples used for comparison. This test sample, kanna extract (19122016261627), is consistent with the chromatographic profile of the reference samples of *Sceletium tortuosum* used above. This test sample Kanna Extract (19122016261627) has characteristics of a customized extract derived from *Sceletium tortuosum* aerial part.

NOTE: The above conclusion may be a function of the natural variance found in botanicals & 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=ou,
email=Khanh@alkemist.com, c=US
Date: 2020.02.10 14:18:56 -08'00'

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

Report Date: 02/07/20

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 19122016261627. 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 this report and 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. © 2020 Alkemist Labs, Inc. All Rights Reserved

CERTIFICATE #393181

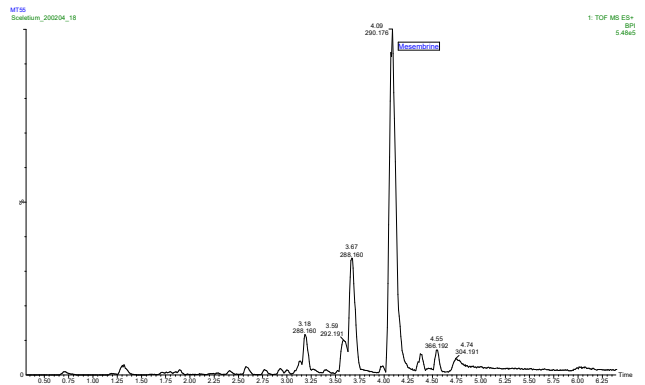


Requested: Synaptent LLC
Report No: Synaptent_200205.docx
Instrument: Waters Synapt G2, ESI probe, ESI Pos, Cone Voltage 15 V

Sample preparation: 0.5 g accurately weighed out and extracted with 10ml methanol. After centrifugation, two dilutions were performed- 50x and 100x in glass vials ready for analysis by lcms.

Lot No: 19122016261627

Total ion chromatogram:



MS Unit

JC Smuts building., Private Bag X1, Matieland, 7602, South Africa
Tel: +27 21 808 5825 Fax: +27 21 808 5863 lcms@sun.ac.za www.sun.ac.za/caf

Results:

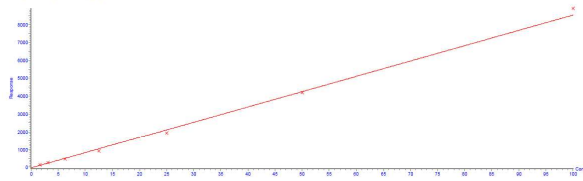
% Alkaloids in g/100g dry material

	mesembrine	mesembrenone	mesembrenol	delta-7-mesembrenone	sceletium A4	Total Alkaloids
19122016261627	2.05	0.48	0.14	0.08	0.03	2.78

Conclusion

Results are expressed as a relative concentration to the response of mesembrine.

Compound name: mesembrenone
 Compound ref: mesembrenone
 Reference compound: mesembrine
 Reference compound ref: mesembrine
 Reference compound ref: mesembrine
 Reference compound ref: mesembrine



MA Stander
 Dr MA Stander
 Staff Scientist

Main Benefits

- S-HTP is a natural supplement, acting as a chemical precursor to serotonin to help improve mood.
- S-HTP is well-known natural sleep aid, and helps to reduce the time taken to fall asleep by improving melatonin levels.
- In addition to promoting healthy sleep, S-HTP reduces stress and supports a healthy metabolism.

Main Cautions

- S-HTP is considered to be a highly safe and effective natural dietary supplement, when taken at the recommended serving size.
- Side effects of larger servings may include upset stomach and nausea. Do not exceed the recommended serving suggestion.
- 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 0.13 cc measuring scoop is included. One level scoop contains approximately one serving or approximately **50mg of S-HTP**. As a dietary supplement, take 1-2 scoops per day. Start at the lower suggested quantity to assess response.
- The negative effects of S-HTP are dependent on the amount taken. Use of a scoop with 30mg (0.03g) 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 disease. 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 S-HTP with other supplements, so long as the amount consumed does not exceed the suggested serving size.
- The benefits of S-HTP are most effective when they are supported by a healthy diet and plenty of exercise.

Kanna Extract