LIFTMODE

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CERTIFICATE OF ANALYSIS

Kanna Extract

(Sceletium tortuosum | MT55 Extract Type*)*

Material Lot #: 20310116420120
Country of Origin: China

Manufacturer Analysis Date: 01/15/2020
Analysis Date: 03/02/2020
Retesting Date: 03/02/2023

Analysis	Claim	Result
Mesembrine	≥3%	3.72%
Total Alkaloids	≥5%	4.62%

Test	Specification	Result
Lead	≤1 ppm	0.067 ppm
Arsenic	≤1 ppm	0.042 ppm
Cadmium	≤1 ppm	0.006 ppm
Mercury	≤1 ppm	<0.001 ppm
Total Aerobic Count	<1000 cfu/g	Conforms
Yeast & Mold	<100 cfu/g	Conforms
E.coli	Negative	Conforms
Salmonella	Negative	Conforms
Coliform	<10 cfu/g	Conforms

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 analysis when properly stored.

Kanna Extract

Main Benefits

- Kanna extract is a natural mood uplifter which is known to promote a healthy sense of happiness and tranquility.
- Kanna extract is a mild SRI (Serotonin Reuptake Inhibitor).
- Furthermore, studies indicate that Kanna Extract can be used to enhance cognitive function and may reduce addictive nicotine cravings.

Main Cautions

- Some reports have indicated that excessive amounts of Kanna can cause headaches and loss of appetite.
- Kanna Extract should be avoided if you are taking any medication for depression.
- Do not use this supplement without first consulting with your doctor if you are taking any medication or have any medical condition.

Usage Tips

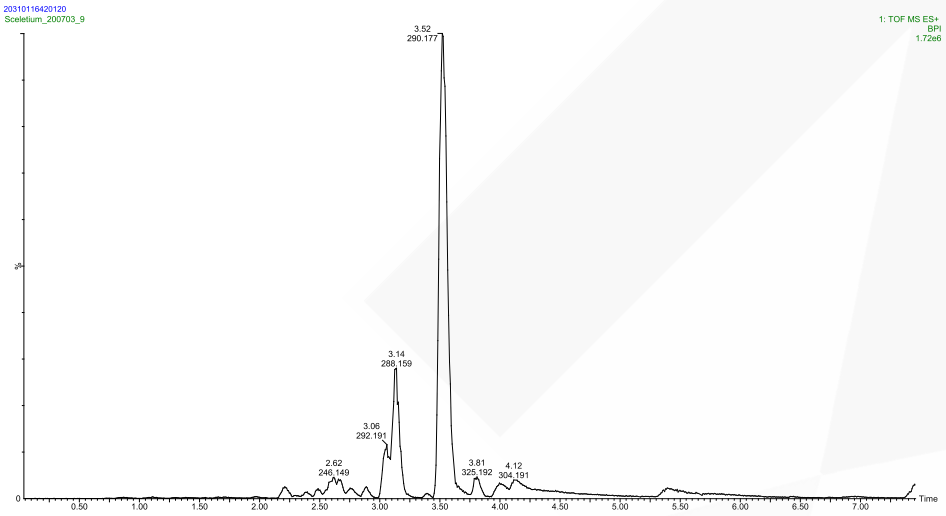
- A 0.15 cc measuring scoop is included. One rounded scoop contains approximately one serving, or approximately **50mg of Kanna Extract.** As a dietary supplement, take 1 serving 1-2 times per day. Start at the lower suggested quantity to assess response.
- The negative effects of Kanna Extract are dependent on the amount taken. Use of a scale with 10mg/0.01g 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 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 Kanna Extract with other supplements, so long as the amount consumed does not exceed the suggested serving size.
- The benefits of Kanna Extract are most effective when they are supported by a healthy diet and plenty of exercise.

CAF Central Analytical Facilities
STELLENBOSCH UNIVERSITY

Requested: Synaptent LLC
Report No: Synaptent _200706c
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- 10x and 100x in glass vials ready for analysis by lcms.

Total ion chromatogram:



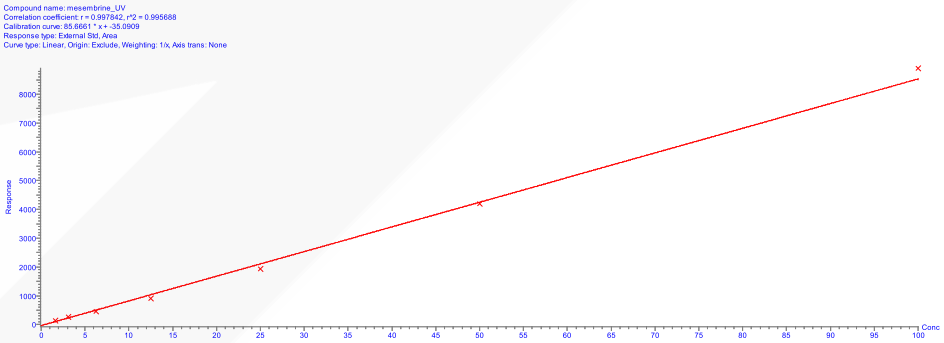
Results:
% or gram/100gram dried material

Quantify Compound Summary Report

Printed Mon Jul 06 10:58:31 2020

Sample Text	Δ7-mesembrenone	Mesembrenol	Mesembrenone	Mesembrine	Sceletium_A4	Total alkaloids
20310116420120	0.07	0.04	0.71	3.72	0.08	4.62

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



Helpful hints in interpreting MS results from Masslynx data

1. The ionization mode is indicated in the top right hand corner of spectra:

ESMS and LCMS lab (more suitable for non-volatile compounds):

ES+ = Electrospray positive: Typically a M+H or M+Na ion is observed
ES-= Electrospray negative: Only used for molecules that can be negatively charged like phenols and carboxylic acids, typically a M-H or M+Cl is observed

APCI = Atmospheric pressure chemical ionization: A softer technique for non-polar molecules – rarely used

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)
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Certificate of Analysis: Kanna Extract (20310116420120)

High Performance Thin-Layer Chromatography with Photo-Documentation

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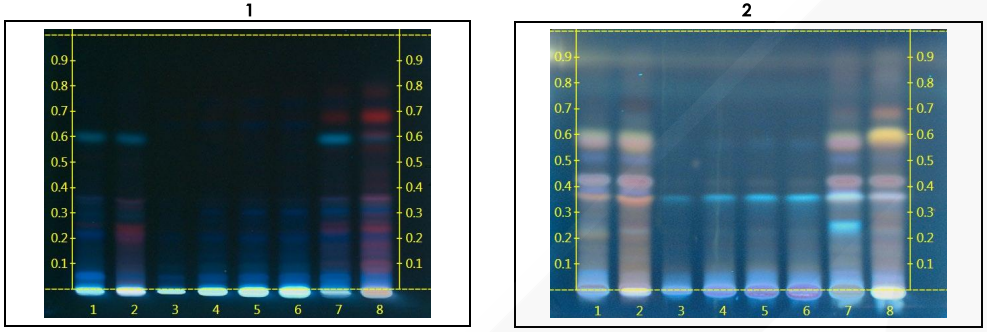

Company Name:	Synaptent
Title:	Kanna Extract
Plant Part:	Aerial Parts
Sample Received:	02/24/20
Sample Packaging:	Foil Pouch
Form of Botanical:	powdered extract
Appearance:	Powder [silver foil pouch]
Lot Number:	(20310116420120) →Lanes 3(3µl), 4(6µl), 5(9µl), 6(12µl)
Sample:	20055MGK_1
Latin Name:	*Sceletium tortuosum* [Mesembryanthemaceae]
Reference Sample:	Lane 1(8µl) (AAU10006MHS) Sceletium tortuosum (entire); Lane 2(8µl) (AAU26412SLGR2) Sceletium tortuosum (aerial part); Lane 7(8µl) (AAU14206TA2) Sceletium tortuosum (herb (leaf, flower, stem)); Lane 8(8µl) (AAU15306AP) Sceletium tortuosum (); held at Alkemist Labs, Garden Grove, CA.
Analyst:	A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 131592
Sample Preparation:	0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.
Stationary Phase:	Silica gel 60, HPTLC plates
Mobile Phase:	toluene: diethyl ether: 1.75 M AcCOOH(dil conc 1:10): use top layer [3.3/3.3/3.3/]
Detection:	(1) UV 366 nm (2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007)
Reference Source:	Scott, G. and Springfield, E.P. (2004). Pharmaceutical monographs. South African National Biodiversity Institute IDT-SOP-72-01

Comments & Conclusions: Lanes 3, 4, 5, 6 are the test sample Kanna Extract (20310116420120). Lanes 1, 2, 7, 8, are the reference samples used for comparison. This test Sample, Kanna Extract (20310116420120) is not consistent with the chromatographic profile of the reference samples of *Sceletium tortuosum,* used above. **This test sample Kanna Extract (20310116420120) indicates the presence of a customized extract derived from *sceletium tortuosum* aerial parts.**
OOS report generated for this sample. Reference# 20055MGK_1: OOS-TLC-2020-0280.

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.

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

Khanh Tran
HPTLC, R&D Technical Supervisor
Digitally signed by Khanh Tran
DN: cn=Khanh Tran, o, ou, email=Khanh@alkemist.com, c=US
Date: 2020.02.28 16:00:51 -08'00'
Adobe Acrobat version: 2020.006.20034

Report Date: 02/28/20

ISO/IEC 17025
ACCREDITED
CERTIFICATE #3851.01

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 20310116420120.

Colmaric Analyticals, LLC

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

Certificate of Analysis

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

Product Name	Kanna Extract	Product Lot Number	20310116420120
Report Date	03/02/20	Laboratory Number	13761

Description	Method	Result
Lead	ICP-MS	0.067 ppm
Arsenic	ICP-MS	0.042 ppm
Cadmium	ICP-MS	0.006 ppm
Mercury	ICP-MS	<0.001 ppm
Total Aerobic Count	Biolumix	<1, 000 CFU/g
Yeast and Mold	Biolumix	<100 CFU/g
E. coli	Biolumix	Absent
Coliform	Biolumix	<10 CFU/g
Salmonella	Biolumix	Absent

Collin Thomas
Laboratory Manager

03/02/2020
Date