

LIFTMODE

LIFTMODE
47 W. Polk St. STE 100-241
Chicago, IL 60605

lif

CERTIFICATE OF ANALYSIS

Kanna Extract
(*Sceletium tortuosum* | MT55 Extract Type)

Material Lot #: 20310116420120
Country of Origin: China

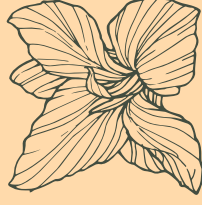
Analysis

Mesembrine
Total Alkaloids ≥ 5

Test Specification

Lead	≤ 1 ppm	
Arsenic	≤ 1 ppm	
Cadmium	≤ 1 ppm	
Mercury	≤ 1 ppm	
Total Aerobic Count	<1000 cfu/g	
Yeast & Mold	<100 cfu/g	
E.coli	Negative	Cu
Salmonella	Negative	Coni.
Coliform	<10 cfu/g	Confor.

Kanna Extract



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 medication for depression.

- This supplement without first consulting your healthcare provider if you are taking any medication or have any medical condition.

- This supplement is not intended to treat, diagnose, cure, or prevent any disease. Consult your healthcare provider before use if you have a medical condition or 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.

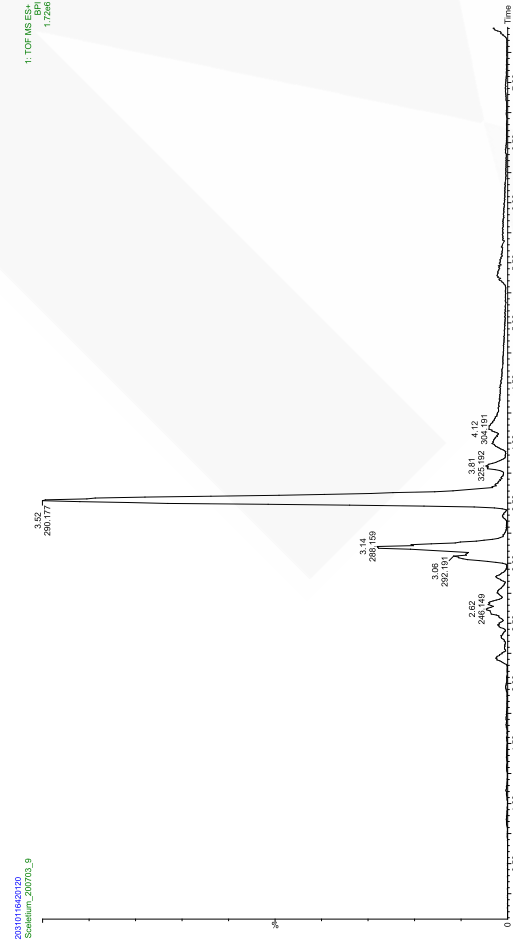
- The benefits of Kanna Extract are most effective when they are supported by a healthy diet and plenty of exercise.

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.

Requested: Synapient LLC
Report No: Synapient_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 Ions.

Total ion chromatogram:



Results: % or gram/100gram dried material

Quantify Compound Summary Report

Printed Mon Jul 06 10:58:31 2020

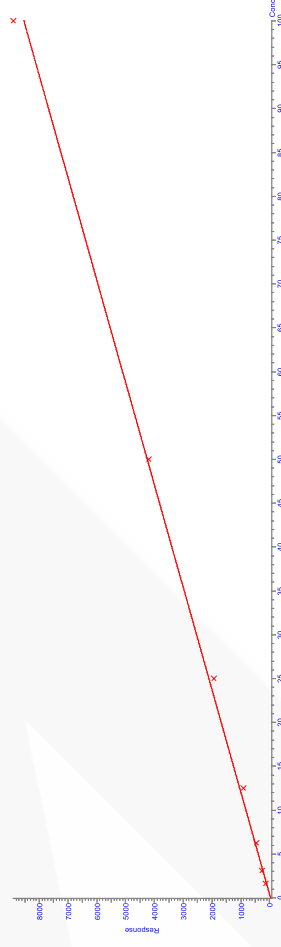
Compound	Area	%
Δ7-mesembrinone	0.07	0.04
Mesembrenol	0.71	0.04
Mesembrinone	3.72	0.08
Mesembrine	3.72	0.08
Scetium_A4	4.62	0.08
Total alkaloids	4.62	0.08

Sample Text
20310116420120

Conclusion

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

Compound Name: mesembrinone_LUV
Retention Time: 3.720 min
Concentration: 0.08197%
Response Mode: External SSI Area
Conc. Unit: Percent
Origin: C:\Data\Weighting_1\k_Abs_Ions_100x



Helpful hints in interpreting MS results from Masslynx data

- 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

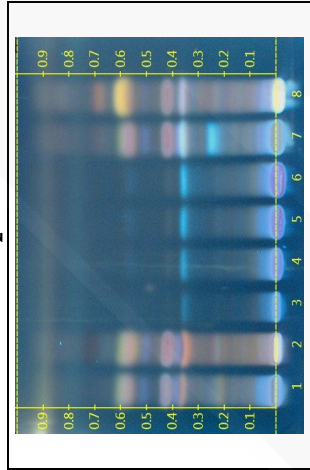
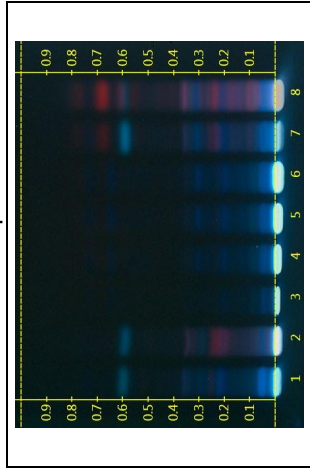
APCI = Atmospheric pressure chemical ionization: A softer technique for non-polar molecules – rarely used

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)
 714-668-9972 (FAX)
 Sales@Alkemist.com
 www.Alkemist.com

Certificate of Analysis: Kanna Extract (20310116420120)
 High Performance Thin-Layer Chromatography with Photo-Documentation



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(Jul), 4(Jul), 5(Jul), 6(Jul), 7(Jul), 8(Jul)
Sample: 20055MGK.1
Latin Name: *Sceletium tortuosum* [Mesembryanthemaceae]
Reference Sample: Lane 1(8ul) (AAU10006MHS) *Sceletium tortuosum* (entire); Lane 2(8ul) (AAU26412SLGR2) *Sceletium tortuosum* (aerial part); Lane 3(8ul) (AAU142061A2) *Sceletium tortuosum* (herb leaf; flower, stem); Lane 4(8ul) (AAU15306AP) *Sceletium tortuosum* (l); held at Alkemist Labs, Garden Grove, CA.
Analyst: A. Davis, N. Afenokova, M. Edwards, S. Kabbaj, N. Hoang, K. Iran, J. Lopez, J. Mares 131592
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. 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.

Digitally signed by Khann N Tran
 DN: cn=Khann N Tran, o=Alkemist Labs, ou=Alkemist Labs, email=khann@alkemist.com, c=US
 Date: 2020.02.28 16:05:01 -0500
 2020.02.28.16:05:01 -0500

Examined, Reviewed & Authorized by: Khann N Tran, HPTLC, R&D Supervisor, Alkemist Labs
 Report Date: 02/28/20

ISO/IEC 17025

 ACCREDITED
 CERTIFICATE #BSL01

Notes: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 20310116420120. 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 consent of Alkemist Labs, this report and its contents are not to be reproduced, copied, disseminated, or otherwise used in any manner. Any violation of these conditions renders the report and its results void. © 2020 Alkemist Labs, Inc. All Rights Reserved



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

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