



LIFTMODE
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CERTIFICATE OF ANALYSIS

Kanna Extract (MT55) (*Sceletium tortuosum*)

Material Lot #: 107200820 Testing Date: 11/24/2020
Country of Origin: South Africa Retesting Date: 11/21/2023

Analysis	Claim	Result
Total Alkaloids	≥5%	11.89%
Mesembrine	≥3%	5.34%

Test	Specification	Result
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HPLC Assay:

Total Alkaloids	≥5%	11.89%
Mesembrine	≥3%	5.34%

ICP-MS

Cadmium	≤1.5 ppm	0.004 ppm
Mercury	≤0.5 ppm	<0.001 ppm
Arsenic	≤0.5 ppm	<0.001 ppm
Lead	≤0.5 ppm	0.074 ppm

Total Aerobic Count	<100 cfu/g	Conforms
Yeast & Mold	<100 cfu/g	Conforms
Coliform	<100 cfu/g	Conforms
<i>E.coli</i>	Negative	Conforms
Salmonella	Negative	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 testing when properly stored.



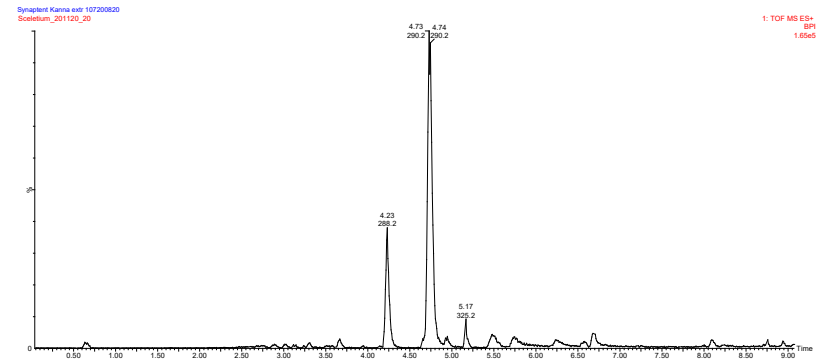
Requested: Julian Taranow
Synaptent
Synaptent@synaptent.com
COA@Synaptent.com

Report No: Sceletium_Synaptent_201120

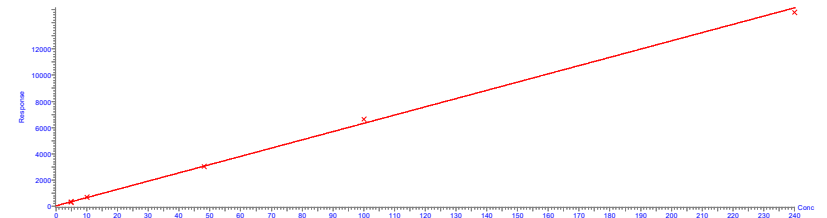
Instrument: Waters Synapt G2, ESI probe, ESI Pos, Cone Voltage 15 V

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.

Total ion chromatogram:



Compound name: Mesembrine_LV
Correlation coefficient: r = 0.999362, r^2 = 0.998724
Calibration curve: 62.9373 * x + 30.9582
Response type: External Std. Area
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis Trans: None



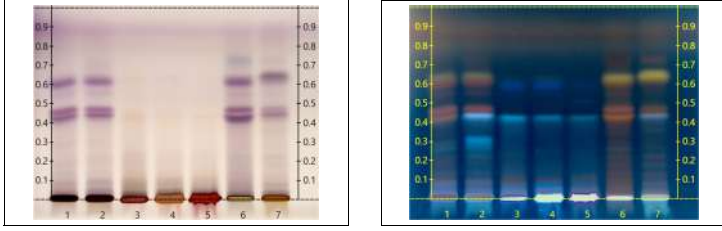
MS Unit

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



Certificate of Analysis

Certificate of Analysis: Kanna Extract MT55 (107200820)
 High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Synaptent
 Title: Kanna Extract MT55
 Plant Part: aerial part
 Sample Received: 12/03/20
 Sample Packaging: Foil Pouch
 Form of Botanical: powdered extract
 Appearance: Foil pouch
 Lot Number: (107200820) → Lane 4(12µl)
 Sample: 20338JMX.1
 Latin Name: *Scellium tortuosum* [Mesembryanthemaceae]
 Reference Sample: Lane 1(Bul) [AAU22597A], Lane 2(Bul) [AAU142067A5] *Scellium tortuosum* (herb); Lane 6(Bul) [AAU26412SLGR2] *Scellium tortuosum* (aerial part); Lane 7(Bul) [AAU15306AP] *Scellium 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 146595
 Sample Preparation: 0.3g+3ml 70% acra In 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(dil conc: 1:10): use top layer [3.3.3/3.3/3]
 Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis (Reich, E., 2007)
 (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: Lane 4 is the test sample Kanna Extract MT55 (107200820). Lanes 1, 2, 6, 7, are the reference samples used for comparison. This test sample, Kanna Extract MT55 (107200820) is not consistent with the chromatographic profile of the reference samples of *Scellium tortuosum*, used above. **This test sample Kanna Extract MT55 (107200820) does not have characteristics of *Scellium tortuosum* aerial part.**

OOS report generated for this sample. Reference# 20338JMX.1: OOS-TLC-2020-1634.

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.



Khanh Tran
 HPTLC, R&D Technical Supervisor

Digitally signed by Khanh Tran
 Date: 2020.12.10 16:05:41 -08'00'
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 2020.013.20074

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

Sample Collected By: Client

Product Name	Kanna Extract	Product Lot Number	107200820
Report Date	11/24/20	Laboratory Number	20111387

Description	Method	Specification	Results
Mesembrine	HPLC	NLT 3%	3.8%
Lead	ICP-MS	<0.5 ppm	0.074 ppm
Arsenic	ICP-MS	<0.5 ppm	<0.001 ppm
Cadmium	ICP-MS	<0.5 ppm	0.004 ppm
Mercury	ICP-MS	<0.5 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	Negative	Negative
Coliform	Biolumix	<10 cfu/g	< 10 cfu/g
Salmonella	Biolumix	Negative	Negative

Collin Thomas
 Laboratory Manager

11/24/2020
 Date 11/24/20

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

Report Date: 12/09/20



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 107200820. 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 obstructed in any manner. Any violation of these conditions renders the report and its results void. © 2020Alkemist Labs, Inc. All Rights Reserved

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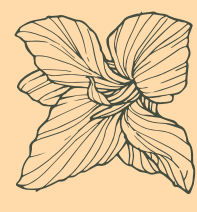
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 Chicago, IL 60605

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 5HT_{2A} (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.
- The benefits of Kanna Extract are most effective when they are supported by a healthy diet and plenty of exercise.