

LIFTMODE
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Chicago, IL 60605

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CERTIFICATE OF ANALYSIS

Kanna Extract (Sceletium Tortuosum Extract)

Material Lot #: 020719560059
Country of Origin: South Africa
Manufacture Date: 04/01/2019
Retesting Date: 3/31/2022

Analysis	Claim	Result
Mesembrine	≥3.0%	4.0%

Test	Specification	Result
Appearance	Fine Powder	Complies
Color	Tan to Light Brown	Complies
Plant Part Used	Whole Herb	Complies
Excipient Used	Mannitol	Complies
Solubility	Freely Soluble in Water	Complies
Moisture	<3%	2.6%
Heavy Metal		
Lead (Pb)	<3.0ppm	Complies
Cadmium (Cd)	<1.0 ppm	Complies
Mercury (Hg)	<0.10 ppm	Complies
Microbial Screening		
Total aerobic count	<1000 cfu/g	Complies
Yeast & mold	<100 cfu/g	Complies
Coliform type	<10 cfu/g	Complies
E. Coli	Absent	Complies
Salmonella	Absent	Complies
Staphylococcus Aureus	Absent	Complies

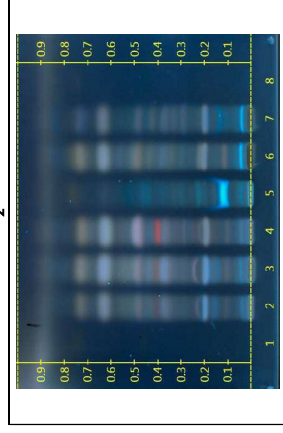
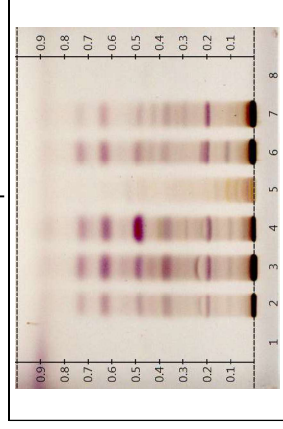
Kanna Extract should be stored at or below room temperature in a tightly sealed durable container. Kanna Extract should be protected from excess heat, direct sunlight, excess humidity and moisture. Kanna Extract is expected to meet our purity specification for 3 years from the date of testing when properly stored.

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



Work performed at:
Alkemist Labs
12661 Hoover Street
Carle Place, NY 11734
714-735-1158 (4372)
714-668-9772 (FAX)
Sales@Alkemist.com
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Certificate of Analysis: Kanna Extract (0207191560059) High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Synaptent
Title: Kanna Extract
Plant Part: Aerial Parts
Sample Received: 07/29/19
Sample Packaging: Light Sensitive Plastic Bottle or Jar
Form of Botanical: powdered extract
Appearance: Blue plastic bottle with blue lid
Lot Number: (0207191560059) → Lane 5(3ul)
Sample: 19210WVF_1
Latin Name: Sceletium tortuosum (Mesembryanthemaceae)
Reference Sample: Lane 2(2ul) (AAU264128)GR2; Lane 3(4ul) (AAU264128)GR2; Sceletium tortuosum (aerial part); Lane 6(3ul) (AAU10006MHS) Sceletium tortuosum (entire); Lane 7(3ul) (AAU151064B2) Sceletium tortuosum (root); held at Alkemist Labs, Garden Grove, CA.
Analyst: A. Davis, J. Kim, N. Afendikova, M. Edwards, S. Rodriguez, S. Kabbaj, M. Lababidi, N. Hoang, K. Tran 122946
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: Dichloromethane: Methanol: 10% NH3 (9/1/0.01)
Detection: (1) 10% Ethanol Sulfuric acid Reagent, heat at 100°C for 2min, Visible light
(2) 10% Ethanol Sulfuric acid Reagent, heat at 100°C for 2min, UV 366 nm
Reference Standard: Lanes 1(3ul) and 8(3ul) Mesembrine HCl (082510, Oih)
Reference Source: Journal of Planar Chromatography 25 (2012) IDT-SOP-72-0

Comments & Conclusions: Lane 5 is the test sample Kanna Extract (0207191560059), Lanes 2, 3, 6, 7, are the reference samples used for comparison. This test Sample, Kanna Extract (0207191560059) is not consistent with the chromatographic profile of the reference samples of Sceletium tortuosum, used above. **This test sample Kanna Extract (0207191560059) is not characteristic of Sceletium tortuosum aerial part. OOS report generated for this sample. Reference# 19210WVF_1: OOS-TLC-2019-1114.**

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, geographical 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
Khath N Tran
DN: cn=Khath Tran,
email=khath@alkemist.com,
date=2019.08.02
16:19:11 -0700



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

ISO/IEC 17025



Note: Any unclassified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 0207191560059. 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, Inc. All rights reserved. This report is not to be disseminated, copied, or otherwise used in any manner. Any violation of these conditions renders the report and its results void. © 2019 Alkemist Labs, Inc. All Rights Reserved.

Report Date: 08/02/19



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Certificate of Analysis

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

Product Name	Kanna	Product Lot Number	0207191560059
Report Date	08/09/2019	Laboratory Number	12423

Description	Method	Result
Mesembrine	HPLC	6.7%
Lead	ICP-MS USP <730>	0.018 ppm
Arsenic	ICP-MS USP <730>	0.089 ppm
Cadmium	ICP-MS USP <730>	0.018 ppm
Mercury	ICP-MS USP <730>	0.002 ppm
Total Aerobic Count	Biolumix	<100 cfu/g
Yeast & Mold	Biolumix	<100 cfu/g
E. Coli	Biolumix	<10 cfu/g
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Negative

Collin Thomas *coll*
Laboratory Manager

08/09/2019 *8/9/19*
Date

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