



Certificate of Analysis

47 W Polk St. STE 100-241
Chicago, IL 60605
liftmode@liftmode.com

LiftNode

Mucuna pruriens Extract

(Mucuna pruriens Extract)

Material Lot #: MPL8489

Test Date: 08/19/2021

Country of Origin: India

Re-Test Date: 08/16/2024

Analysis	Claim	Result
L-DOPA	≥20%	26%

Test	Specification	Result
Plant Extract Identification (HPTLC)	Consistent with Reference Sample	Consistent with Reference Sample
L-DOPA (HPLC)	≥20%	26%
Heavy Metals		
Lead	≤1 ppm	0.0825 ppm
Mercury	≤1 ppm	<0.00500 ppm
Cadmium	≤1 ppm	<0.00500 ppm
Arsenic	≤1 ppm	0.0445 ppm
Total Aerobic Plate Count	<1000 cfu/g	<10 cfu/g
Yeast	<100 cfu/g	<10 cfu/g
Moulds	<100 cfu/g	<10 cfu/g
Escherichia coli	<10 cfu/g	<10 cfu/g
Coliforms	<10 cfu/g	<10 cfu/g
Salmonella	Not Detected per 25 g	Not Detected per 25 g
Staphylococcus aureus	<10 cfu/g	<10 cfu/g

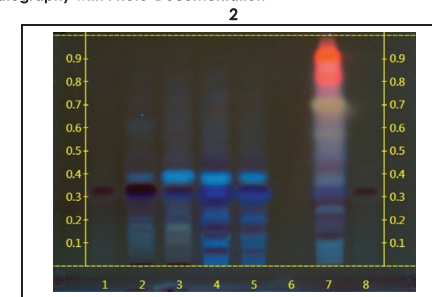
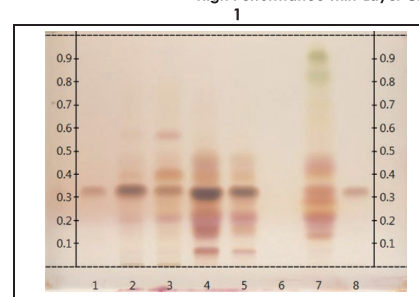
Mucuna pruriens Extract should be stored at or below room temperature in a tightly sealed durable container. Mucuna pruriens Extract should be protected from excess heat, direct sunlight, excess humidity, and moisture. Mucuna pruriens Extract has a retesting period of 3 years from the date of analysis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

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: Mucuna pruriens PE (MPL8489) High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Synaptent
Title: Mucuna pruriens PE
Plant Part: seed
Sample Received: 07/29/19
Sample Packaging: Light Sensitive Glass Bottle or Jar
Form of Botanical: powdered extract
Appearance: Blue plastic bottle
Lot Number: (MPL8489) → Lanes 4(6µl), 5(2µl)
Sample: 19210PEO_1
Latin Name: Mucuna pruriens (L.) DC. [Fabaceae]
Reference Sample: Lane 2(6µl) (XK30010CRB), Lane 3(6µl) (XK20106AP); Lane 7(6µl) (XK22306AP1) Mucuna pruriens (herb (leaf, stem)); 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 122803
Sample Preparation: 0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: n-butanol: Acetic acid: water [8/2/2]
Detection: (1) Ninhydrin, 120°C, 5min, vis (Reich, E., 2007)
(2) Ninhydrin, 120°C, 5min, 366nm (Reich, E., 2007)
Reference Standard: Lanes 1(3µl) and 8(3µl) L-dopa (4995-2599, CHR), Methanol (0000206696, BDH)
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Lanes 4, 5 are the test sample Mucuna pruriens PE (MPL8489). Lanes 2, 3, 6, 7, are the reference samples used for comparison. This test sample, Mucuna pruriens PE (MPL8489) is consistent with the chromatographic profile of the reference samples of Mucuna pruriens, used above. **This test sample Mucuna pruriens PE (MPL8489) has characteristics of Mucuna pruriens seed.**

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: Sidney Sudberg, Chief Scientific Officer, Alkemist Labs



Dr. Sidney Sudberg
President & CEO
Date: 2019.08.02
16:58:30 -0700
Report Date: 08/02/19

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CERTIFICATE OF ANALYSIS

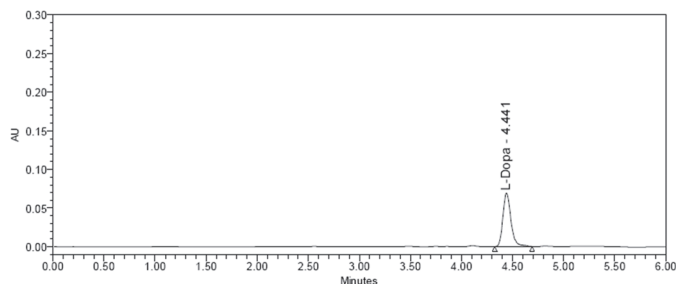


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Report Issued To: Synaptent
47 W. Polk St. ; 100-241
Chicago IL 60605-2000
USA

Sample Name: Mucuna pruriens
Description: Powdered extract; Fine dull brown powder
[clear plastic jar]
Lot #: MPL8489
AL #: 21231LXL_1
Analysis ID: 161218
Received: 08/19/21

Determination of L-Dopa Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
4.4	L-Dopa	25.723	25.395	25.559	≥ 20%	Pass

Chromatographic Conditions:

Method: ATM-815-0171-R1
Column: API193 Gemini 5µ C18 110A (250 x 4.6 mm)
Temperature: 60°C
Flow Rate: 0.8 mL/min
Injection Volume: 2 µL
UV Detection: 225 nm
Mobile Phase: Water:Methanol:Phosphoric Acid (975.5:19.5:1)
HPLC Instrument: Alliance_3

Sample Preparation:

Mixed sample well and transferred approximately 100 mg to a 10 mL volumetric flask. Added 8 mL of 0.1N HCl and vortexed 30 seconds. Sonicated for 30 minutes at room temperature. Let cool to room temperature. Filled to volume with 0.1N HCl. Diluted 1:25 in 0.1N HCl. Centrifuged for 10 minutes and transferred supernatant to an HPLC vial for analysis.

Report Summary:

Conclusion: This "Mucuna pruriens" test sample contains an average of 26% L-Dopa on the as-is basis.
OOS Reference: N/A
Empower Reference: 23821 L-Dopa



Digitally signed by Celine Deneuve
DN: cn=Celine Deneuve, o=alkemist-labs.com,
c=US
Date: 2021.08.27 14:22:54 -0700

Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor

Analysis Date : 08/27/21 Analyzed By: L Alonzo

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Synaptent

Joseph Watkins
1442 W. Fulton Street
Chicago, IL 60607

ANALYTICAL REPORT

AR-21-QH-047898-01

Client Code: QH0000902

PO#: 20210817

Received On: 19Aug2021

Reported On: 03Sep2021

Eurofins Sample Code: 477-2021-08190222	Sample Registration Date: 19Aug2021
Client Sample Code: MPL8489	Condition Upon Receipt: acceptable, 21.5°C
Sample Description: Mucuna pruriens Extract	Sample Reference:
FS001 - Heavy Metals (As, Cd, Hg, and Pb)	Reference AOAC 2011.19 and 993.14 (modified) Accreditation ISO/IEC 17025:2017 A2LA 2918.01 Completed 27Aug2021 Sub 1

Parameter	Result
Arsenic	44.5 ppb
Cadmium	< 5.00 ppb
Lead	82.5 ppb
Mercury	< 5.00 ppb

UM8VD - Total Coliforms - CMMEF Chapter 9.933	Reference CMMEF Chapter 9.933 Accreditation ISO/IEC 17025:2017 A2LA 3329.07 Completed 20Aug2021
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Parameter	Result
Coliforms	< 10 cfu/g
Parameter	Result
Escherichia coli	< 10 cfu/g

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12 Accreditation ISO/IEC 17025:2017 A2LA 3329.07 Completed 21Aug2021
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Parameter	Result
Staphylococcus aureus	< 10 cfu/g

Page 2 of 5

9/3/21 10:37 am

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ANALYTICAL REPORT

AR-21-QH-047898-01

Client Code: QH0000902

PO#: 20210817

Received On: 19Aug2021

Reported On: 03Sep2021



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	Mucuna Pruriens	Product Lot Number	MPL8489
Report Date	08/15/2019	Laboratory Number	12467

Description	Method	Result
L-Dopa	HPLC	21.8%
Lead	ICP-MS USP <730>	0.143 ppm
Arsenic	ICP-MS USP <730>	0.096 ppm
Cadmium	ICP-MS USP <730>	0.019 ppm
Mercury	ICP-MS USP <730>	0.005 ppm
Total Aerobic Count	Biolumix	<1000 cfu/g
Yeast & Mold	Biolumix	<100 cfu/g
E. Coli	Biolumix	Negative
Coliform	Biolumix	<10 cfu/g
Salmonella	AOAC 967.26	Negative

Collin Thomas
Laboratory Manager

08/15/2019 8/15/19
Date

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