

LIFT MODE

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

CERTIFICATE OF ANALYSIS

Gotu Kola Extract (*Centella asiatica*)

Material Lot #: 20458
Country of Origin: China

Analysis

Test	Claim	Specification	Result
HPLC Assay	≥ 18%	76.0%	18.2%
Asiacoside	≥ 70%	76.0%	57.1%
Madeccassoside + Asiaticoside B	≥ 55%	≥ 55%	≥ 55%
ICP-MS	≤ 1.5 ppm	0.001 ppm	Conforms
Arsenic	≤ 0.5 ppm	0.028 ppm	Conforms
Lead	≤ 0.5 ppm	< 0.001 ppm	Conforms
Cadmium	≤ 0.5 ppm	< 0.001 ppm	Conforms
Mercury	≤ 0.5 ppm	< 0.001 ppm	Conforms
Total Aerobic Count	< 1000 cfu/g	< 100 cfu/g	Conforms
Yeast & Mold	< 10 cfu/g	Negative	Conforms
Coliform	< 10 cfu/g	Negative	Conforms
<i>E. coli</i>	Negative	Negative	Conforms
Salmonella	Negative	Negative	Conforms

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

CERTIFICATE OF ANALYSIS

12661 HOOVER STREET GARDEN GROVE, CA 92841 | p. 714-754-4372 | f. 714-668-9972 | www.ALKEMIST.COM

Report Issued To:

Synaptent
47 W. Polk St.
Chicago Illinois 60605

Sample Name:

Gotu Kola Extract
Powdered extract; Foil Pouch

Description:

Lot #:

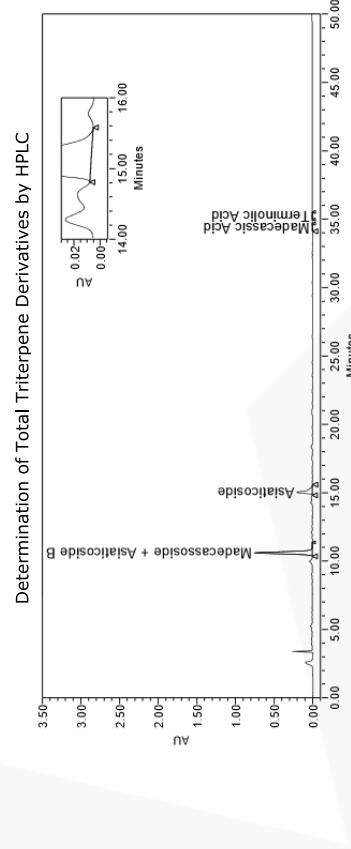
20458

Analysis ID:

2022CEK_2

Received:

08/13/20



Ret. Time (min)	Compound Name	Prep. 1 (% as is)	Prep. 2 (% as is)	Average (% dry basis)	Specification	Result
10.6	Madeccassoside + Asiaticoside B	55.603	55.435	55.189	N/A	N/A
15.0	Asiaticoside	18.148	18.058	18.103	18.624	N/A
34.4	Medecassic acid	0.146	0.129	0.137	0.141	N/A
35.2	Terminalia acid	0.127	0.132	0.130	0.133	N/A
45.7	Asitic acid	N/D	N/D	N/D	N/A	N/A
	Total Triterpene Derivatives	74.023	73.753	73.888	76.0157	Report Only

Chromatographic Conditions:

Method: USP Powdered Centella asiatica Extract
Column: AP138 Zorbax SB-C18 (250 x 4.6 mm)
Temperature: 25°C
Flow Rate: 1.0 mL/min
Injection Volume: 10 μL
UV Detection: 200 nm
Mobile Phase: Acetonitrile
HPLC Instrument: Alliance_4

Sample Preparation:

Weighed 50 mg into a 10 mL volumetric flask, filled to volume with methanol, vortexed for 30 seconds and sonicated for 30 minutes at room temperature. Filtered through a 0.45 μm PTFE syringe filter, discarding the first few mL of filtrate.

Report Summary:

This "Gotu Kola Extract" test sample contains an average of 76% Triterpene derivatives on the dried basis.
Conclusion: N/A
OOS Reference: N/A
Loss on Drying: 2.80%
Notebook Reference: LC149 p.138

Analysis Date : 09/04/20

Analyzed By: M Edwards

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Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor

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Date: 2020/09/04
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