



Certificate of Analysis

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Kanna Elixir

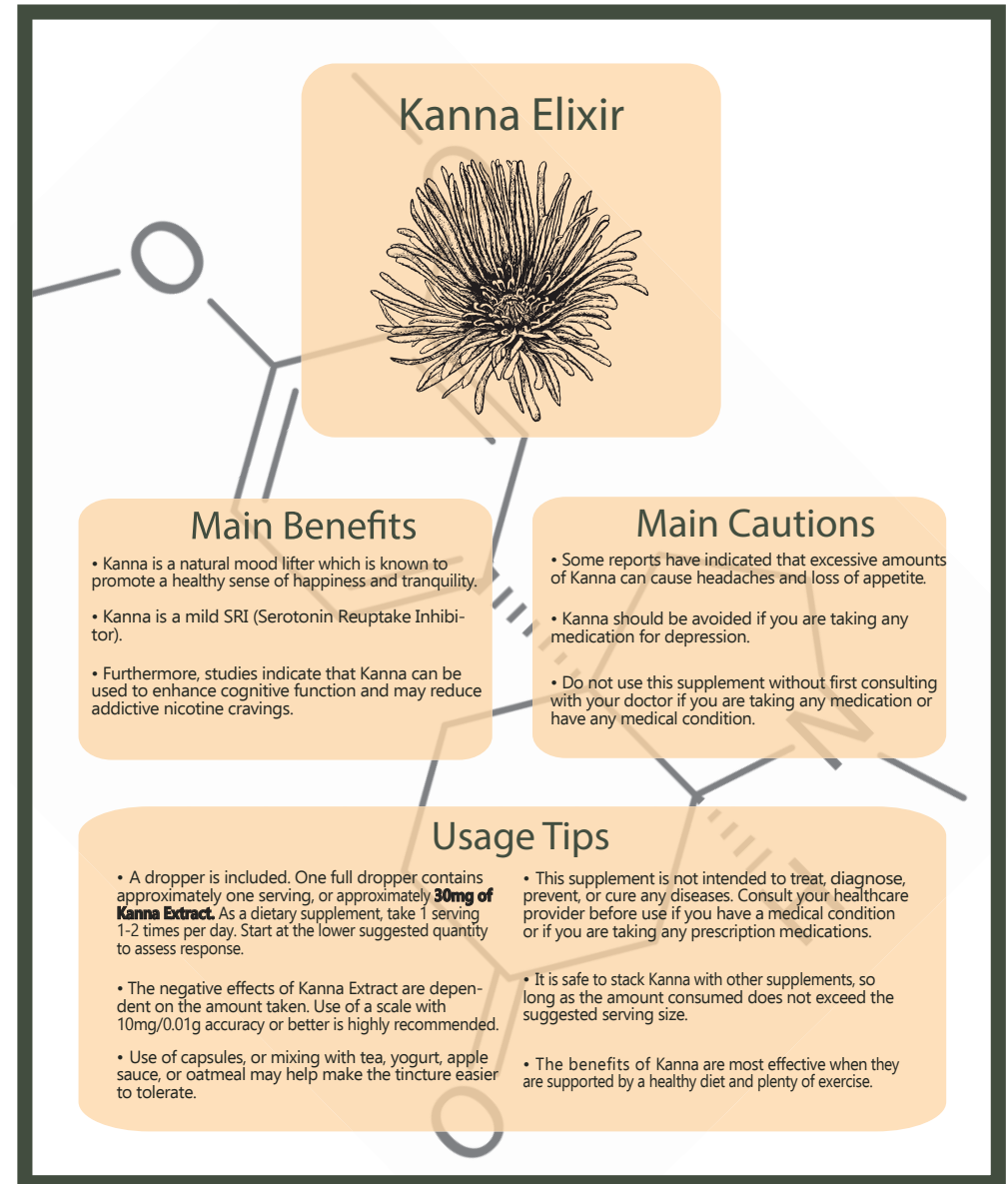
(Standardized *Sceletium tortuosum* Glycerite)

Material Lot #: 203568 **Test Date:** 08/17/2021
Country of Origin: South Africa **Re-Test Date:** 08/16/2024

Analysis	Claim	Result
Total Alkaloids	≥2.0 mg/ml	2.040 mg/g
Mesembrine	≥1.2 mg/ml	1.700 mg/g

Test	Specification	Result
Total Alkaloids	≥2.0 mg/ml	2.040 mg/g (2.448 mg/ml)
Mesembrine	≥1.2 mg/ml	1.700 mg/g (2.040 mg/ml)
Mesembrenone	≥0.6 mg/ml	0.341 mg/g (0.409 mg/ml)
Heavy Metals		
Lead	≤0.5 ppm	0.329 ppm
Mercury	≤0.5 ppm	<0.005 ppm
Cadmium	≤0.5 ppm	<0.005 ppm
Arsenic	≤0.5 ppm	<0.010 ppm
Total Aerobic Plate Count		
Yeast	<10 cfu/g	<10 cfu/g
Moulds	<10 cfu/g	<10 cfu/g
Escherichia coli	<10 cfu/g	<10 cfu/g
Coliforms	<10 cfu/g	<10 cfu/g
Salmonella	Negative	Not Detected per 25 g

Kanna Elixir should be stored at or below room temperature in a tightly sealed durable container. Kanna Elixir should be protected from excess heat, direct sunlight, excess humidity, and moisture. Kanna Elixir has a retesting period of 3 years from the date of analysis when properly stored. The concentration of alkaloids has been determined using GC-MS and each reported value is accurate within ±5%. The results expressed in mg/ml are calculated values using a tincture density of 1.2 g/ml.



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ANALYTICAL REPORT

AR-21-QH-044298-01

Client Code: QH0000902
PO#: 203568
Received On: 04Aug2021
Reported On: 17Aug2021

Eurofins Sample Code: 477-2021-08040235	Sample Registration Date: 04Aug2021
Client Sample Code: 203568	Condition Upon Receipt: acceptable, 20.8°C
Sample Description: Kanna Tincture Solution	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 11Aug2021
	Sub 2

Parameter	Result
Arsenic	< 10.0 ppb
Cadmium	< 5.00 ppb
Lead	329 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 05Aug2021

Parameter	Result
Coliforms	< 10 cfu/g
Parameter	Result
Escherichia coli	< 10 cfu/g

UMDTC - Salmonella spp. - AOAC-RI 121501	Reference AOAC-RI 121501
	Accreditation ISO/IEC 17025:2017 A2LA 3329.07
	Completed 05Aug2021

Parameter	Result
Salmonella	Not Detected per 25 g

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12
	Accreditation ISO/IEC 17025:2017 A2LA 3329.07
	Completed 06Aug2021

Parameter	Result
Staphylococcus aureus	< 10 cfu/g

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Eurofins Sample Code: 477-2021-08040235	Sample Registration Date: 04Aug2021
Client Sample Code: 203568	Condition Upon Receipt: acceptable, 20.8°C
Sample Description: Kanna Tincture Solution	Sample Reference:

UMIB1 - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Completed 09Aug2021
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Parameter	Result
Yeast	< 10 cfu/g
Parameter	Result
Moulds	< 10 cfu/g

UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72	Reference CMMEF Chapter 8.72	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 06Aug2021
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Parameter	Result
Aerobic Plate Count	< 10 cfu/g

YI01X - Sceletium Alkaloids (Mesembrine, Mesembrenone,...)	Reference South African Journal of Botany 82 (2012) 99–107 (Completed 17Aug2021	Sub 1
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Parameter	Result
Mesembrenone	341 µg/g
Mesembrenol	nd µg/g
Mesembrine	1,700 µg/g
Mesembranol	nd µg/g
Total Reported Alkaloids	2,040 µg/g

Subcontracting partners:
1 - Eurofins SF Analytical DBA Craft Technologies, NC
2 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,



Michael Kaiser
Associate Technical Leader

