High Performance Liquid Analytics

111 Westport Plaza Dr. 6th Floor St. Louis, MO. 63146

Certificate of Analysis

June 15, 2020 **Derma Thereal SAFETY RESULTS** For informational purposes only.

Product Name: Massage Oil 20MG Manufacturer: DermaThereal

Type:Topical

Test: Non-Compliance Full-Panel

PRODUCT IMAGE



Sample ID:-T086

Sample Size: 5ml

Retail Product Size:20mg/118ml/4oz

Ordered: 06/06/20 Sampled: 06/07/20

Completed: 06/15/20 Expires: 06/15/21

Sampling Method: SOP Client Method

PASSED

Page 1 of 5

MISC.

Pesticides Heavy Metals

Microbials

Mycotoxins

Residuals

Filth

Water Activity

Moisture

Terpenes

PASSED PASSED

PASSED

PASSED

PASSED

PASSED NOT TESTED NOT TESTED

0.01

LOD

TESTED

CANNABINOID RESULTS

Total THC

0.0%

Total CBD

.16mg/ml

0.01

LOD

0.01

LOD

0.01

LOD

CBD/Container: 19.36mg

Total Cannabinoids

19.36ma

Total Cannabinoids/Container: 19.36mg

CBC ND mg/v	CBGA ND mg/v	CBG ND mg/v	CBN ND mg/v	THCV ND mg/v	D-8 THC ND mg/v	CBDV ND mg/v	CBDA 0.05 mg/v	CBD 0.82 mg/v	D-9 THC ND mg/v	THCA ND mg/v
		115	5						5	
ND	ND	ND	ND	ND	ND	ND	0.01	0.16	ND	ND A
mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v l

0.01

LOD

Foreign Matter PASSED

Analyzed By Weight ID-710

25ml 06/12/20

LOD(ppm) N/A

Reviewed On - 06/15/20

Instrument Used: Filth/Foreign Material Microscope

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products.

Cannabinoid Profile Test

Analyzed By ID-710

0.01

LOD

0.01

Weight 5ml

0.01

0.01

LOD

Extraction date

06/07/20

0.01

LOD

Extracted By

ID-710

0.01

LOD

Reviewed On - 06/15/20 Instrument Used: HPLA-1100-DAD-#01

Dilution Reagent 030520.03 400

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV).

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C. Kukowski LAB DIRECTOR



High Performance Liquid Analytics

111 Westport Plaza Dr. 6th Floor St. Louis, MO. 63146

Certificate of Analysis

MNG 2005 INC J 1380 Ferguson Ave, Saint Louis, MO United States 63133

Product Name: Massage Oil 20MG Manufacturer: DermaThereal

Type:Topical

Test: Non-Compliance Full-Panel

Sample ID:-T086 Sample Size: 5ml

Retail Product Size:20mg/118ml/4oz

Ordered: 06/06/20 **Sampled**: 06/07/20

Completed: 06/15/20 Expires: 06/15/21

Sampling Method: SOP Client Method

D5 GG9 8

Page 2 of 5

Terpenes

HYghYX

HYfdYbYg''	@C8"	l b]lg"	FYgi `hfl
5 @D<5!798F9B9C	0.007	%	ND
5 @D<5! <i @b9<="" ai="" th=""><th>0.007</th><th>%</th><th>ND</th></i>	0.007	%	ND
5 @D<5!D=B9B9	0.007	%	ND
5 @D<5!H9FD=B9B9	0.007	%	ND
69H5!AMF79B9	0.007	%	ND
69H5!D=B9B9	0.007	%	ND
6CFB9C@	0.013	%	ND
75 A D< 9 B9	0.007	%	ND
75AD <cf< th=""><th>0.013</th><th>%</th><th>ND</th></cf<>	0.013	%	ND
75FMCD <m@@b9'cl-89'< th=""><th></th><th></th><th></th></m@@b9'cl-89'<>			
798FC@	0.007	%	ND
5 @D<5!6=G56C@C@	0.007	%	ND
G5 6 =B9 B9	0.007	%	ND
G5 6 =B9 B9 '< M8 F5 H9	0.007	%	ND
H9 F D=B9 C @	0.007	%	ND
H9 F D=BC @ B9	0.007	%	ND
69H5!75FMCD <m@@9b9< th=""><th>0.007</th><th>%</th><th>ND</th></m@@9b9<>	0.007	%	ND
HF5BG!B9FC@8C@	0.007	%	ND
J5 @ B7 9 B9 '	0.007	%	ND
DI @9; CB9	0.007	%	ND
5 @D<5!D<9 @@5 B8 F9 B9	0.007	%	ND
C7=A9B9	0.007	%	ND
B9FC@	0.007	%	ND
@B5 @CC @	0.007	%	ND
@ACB9B9	0.007	%	ND
; I 5=C@	0.007	%	ND
; 9F5BM@579H5H9	0.007	%	ND
; 9F5B=C@	0.007	%	ND
; 5AA5!H9FD=B9B9	0.007	%	ND
: 9B7 < CB9	0.007	%	ND
: 5 FB9 G9 B9	0.007	%	ND
нсну.		\$.	
		T	

HYfdYbYg [*]	@C8	I b]hg"	FYgi `hfl Ł
91 75 @MDHC @	0.007	%	ND
=GC6CFB9C@	0.007	%	ND
<9L5 <m8fch<mac@< th=""><th>0.007</th><th>%</th><th>ND</th></m8fch<mac@<>	0.007	%	ND
: 9B7 < M@5 @7C < C@	0.007	%	ND
'!75F9B9	0.007	%	ND
7 =G!B9 F C @8 C @	0.007	%	ND
=GCDI @9; C@	0.007	%	ND

Terpenes

H9 GH9 8

5 b U mmYX Vmi K Y][\hi 9 l lf UWh]cb XUhY

'91 lf UWYX'6 m

ID-710

012120.R13

1.0045g

06/08/20

ID-710

FYj JYk YX'Cb - 06/15/20

=bglfi a Ybhil gYX'. Liquid Injection GCMS QP2010

 F YU[Ybh
 8] i h]cb*
 7 cbgi a g"=8 *

 021420.11
 10
 180111

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography – Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.

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C. Kukowski LAB DIRECTOR



280653964

High Performance Liquid Analytics

111 Westport Plaza Dr. 6th Floor St. Louis, MO. 63146

Certificate of Analysis

Derma Thereal

Product Name: Massage Oil 20MG Manufacturer: DermaThereal

Type:Topical

LOD

Units

Test: Non-Compliance Full-Panel

Sample ID:-T086 Sample Size: 5ml

Retail Product Size:20mg/118ml/4oz

Ordered: 06/06/20 Sampled: 06/07/20 Completed: 06/15/20

Expires: 06/15/21

Result

Sampling Method: SOP Client Method

PASSED

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Pesticides

PASSED

Action Level

Pesticides	LOD	Units	Action Level	Res
ABAMECTIN B1A	0.01	ppm	0.3	ND
ACEPHATE	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND
ACETAMIPRID	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND
BOSCALID	0.01	ppm	3	ND
CAPTAN	0.07	ppm	3	ND
CARBARYL	0.05	ppm	0.5	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND
CHLORFENAPYR	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
CLOFENTEZINE	0.02	ppm	0.5	ND
COUMAPHOS	0.01	ppm	0.1	ND
CYFLUTHRIN	0.05	ppm	1	ND
CYPERMETHRIN	0.05	ppm	1	ND
DAMINOZIDE	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND
DICHLORVOS	0.01	ppm	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND
DIMETHOMORPH	0.02	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	1.5	ND
FENHEXAMID	0.01	ppm	3	ND
FENOXYCARB	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	2	ND
FIPRONIL	0.01	ppm	0.1	ND
FLONICAMID	0.01	ppm	2	ND
FLUDIOXONIL	0.01	ppm	3	ND
HEXYTHIAZOX	0.01	ppm	2	ND
IMAZALIL	0.01	ppm	0.1	ND
IMIDACLOPRID	0.04	ppm	3	ND
KRESOXIM-METHYL	0.01	ppm	1	ND
MALATHION	0.02	ppm	2	ND
METALAXYL	0.01	ppm	3	ND
METHIOCARB	0.01	ppm	0.1	ND

METHOMYL	0.01	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.1	ND
MEVINPHOS	0.01	ppm	0.1	ND
MYCLOBUTANIL	0.01	ppm	3	ND
NALED	0.025	ppm	0.5	ND
OXAMYL	0.05	ppm	0.5	ND
PACLOBUTRAZOL	0.01	ppm	0.1	ND
PHOSMET	0.01	ppm	0.2	ND
PIPERONYL BUTOXIDE	0.1	ppm	3	ND
PRALLETHRIN	0.01	ppm	0.4	ND
PROPICONAZOLE	0.01	ppm	1	ND
PROPOXUR	0.01	ppm	0.1	ND
PYRETHRINS	0.05	ppm	1	ND
PYRIDABEN	0.02	ppm	3	ND
SPINETORAM	0.02	ppm	3	ND
SPIROMESIFEN	0.01	ppm	3	ND
SPIROTETRAMAT	0.01	ppm	3	ND
SPIROXAMINE	0.01	ppm	0.1	ND
TEBUCONAZOLE	0.01	ppm	1	ND
THIACLOPRID	0.01	ppm	0.1	ND
THIAMETHOXAM	0.05	ppm	1	ND
TOTAL CONTAMINANT LOAD	0	ppm	20	ND
(PESTICIDES)				
TOTAL PERMETHRIN	0.01	ppm	1	ND

Pesticides

PASSED

ND

3

ppm

Analyzed by	Weight	Extraction date	Extracted By
ID-710	1.0501g	06/08/20	ID-710

0.01

0.01

Reviewed On - 06/15/20

TOTAL SPINOSAD

TRIFLOXYSTROBIN

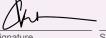
Pesticides

Instrument Used: Liquid Injection GCMS QP2010

Reagent	Dilution	Consums. ID
013120.28	10	180111
031220.R10		280653964
032320.R17		

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C. Kukowski LAB DIRECTOR



06-15-2020

Signed On

High Performance Liquid Analytics

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Certificate of Analysis

Derma Thereal

Product Name: Massage Oil 20MG Manufacturer: DermaThereal

Type:Topical

Test: Non-Compliance Full-Panel

Sample ID:-T086 Sample Size: 5ml

Retail Product Size:20mg/118ml/4oz

Ordered: 06/06/20 Sampled: 06/07/20

Completed: 06/15/20 Expires: 06/15/21

Sampling Method: SOP Client Method PASSED

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Residual solvents

PASSED

Solvent	LOD	Units	Action	Pass/Fa	il Result
			Level		
			(PPM)		
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	000000	PASS	776.749
ETHYL ACETATE	36	ppm	400	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ETHYLENE OXIDE	0.6	ppm	5	PASS	ND
HEPTANE	45	ppm	5000	PASS	ND
METHANOL	22.5	ppm	250	PASS	ND
N-HEXANE	4.5	ppm	250	PASS	ND
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
PROPANE	120	ppm	5000	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Analyzed by	Weight	Extraction date	Extracted By
ID-710	0.0294g	06/08/20	ID-710

Reviewed On - 06/15/20

Instrument Used: Headspace GCMS

Reagent	Dilution	Consums. ID
	1	00279984
		161291-1
		24154107

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Certificate of Analysis

Derma Thereal

Product Name: Massage Oil 20MG Manufacturer: DermaThereal

Type:Topical

Test: Non-Compliance Full-Panel Sample Size: 5ml

Retail Product Size:20mg/118ml/4oz

Ordered: 06/06/20 Sampled: 06/07/20 Completed: 06/15/20

Sample ID:-T086

Expires: 06/15/21 Sampling Method: SOP Client Method

PASSED

Page 5 of 5

Mycotoxins

PASSED

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20ug/Kg.

Heavy Metals

PASSED

Dilution

Extracted By

ID-710

Reagent
032420.R01
031820.R03
031820.R02
031920.R01
111319.02

Analyzed by

Reviewed On - 06/15/20 Instrument Used: ICPMS-2030 B

ID-710

Metal LOD Unit Result Action Level (PPM)

Extraction date

06/07/20

ARSENIC 0.02 ND .5 ppm CADMIUM 0.02 ND 0.5 ppm LEAD 0.05 ppm ND 0.5 **MERCURY** 0.02 ND ppm

Weight

0.2808g

Microbials

PASSED

nalyte		Res

not present in 1 gram.
not present in 1 gram.
<100

Reviewed On - 06/15/20

Instrument Used: PathogenDX PCR_Array Scanner, PathogenDX PCR_DA-171

Analyzed by Weight Extraction date Extracted By

ID-710 1.0197g 06/07/20 ID-710

Reagent Dilution Consums. ID

181019-274

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

nt of C. Kukowski
Of LAB DIRECTOR
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slyte.

06-15-2020 Signature Signed On

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