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

Certificate of Analysis

> June 15, 2020 Derma Thereal SAFETY RESULTS

PRODUCT IMAGE



For informational purposes only.

Product Name: Pain Rub w/Emu Oil 150MG Manufacturer: DermaThereal Type:Topical Test: Non-Compliance Full-Panel

> Sample ID:-T073 Sample Size: 5ml Retail Product Size: 150mg/60ml/2oz Ordered : 06/06/20 Sampled : 06/07/20 Completed: 06/15/20 Expires: 06/15/21 Sampling Method: SOP Client Method

PASSED



2.63mg/ml

CBD/Container: 157.81mg

CBC ND	CBGA ND	CBG ND	CBN ND	ND	D-8 THC ND	CBDV ND	CBDA 0.05	CBD 13.15	D-9 THC ND	ND	Foreign Matter PASSED
mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	mg/v	
ND mg/v	ND mg/v	ND mg/v	ND mg/v	ND mg/v	ND mg/v	ND mg/v	0.01 mg/v	2.63 mg/v	ND mg/v	ND mg/v	Analyzed By Weight Date LOD(ppm) ID-710 1.005g 06/12/20 N/A Reviewed On - 06/15/20 V/A
0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	0.01 LOD	Instrument Used : Filth/Foreign Material Microscope

Cannabinoid Profile Test



ID-710

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

Extracted By

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



157.81ma

Total Cannabinoids/Container: 157.81mg

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

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Derma Thereal

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HYghYX

Terpenes

HYfdYbYg"	@C8"	lb]hg¨	F Ygi `h	ifl	Ł
5 @D<5!798F9B9CÁ	€È€€Ï ÁÁ	ÃÁÁ	ÞÖÁ		
5 @D<5! <i @b9="" ai="" td="" å<=""><td>€ÈE€Ï ÁÁ</td><td>ÃÁÁ</td><td>ÞÖÁ</td><td></td><td></td></i>	€ÈE€Ï ÁÁ	ÃÁÁ	ÞÖÁ		
5 @D<5!D=B9B9'Á Á	€ÈE€Ï ÁÁ	ÃÁ	ÞÖÁ		
5 @D<5 !H9 F D=B9 B9 'Á	€ÈE€Ï ÁÁ	à Á	ÞÖÁ		
69H5!AMF79B9'ÁÁ	€ÈE€Ï ÁÁ	à ÁÁ	ÞÖÁ		
69H5!D=B9B9 [·] Á	€È€€ÏÁ	ÁÃ ÁÁ	ÞÖÁ		
6CFB9C@Á	€È€FHÄÄ	ÃÁÁ	ÞÖÁ		
75AD<9B9 [·] Á	€ÈEEÏ ÁÁ	à Á	ÞÖÁ		
75AD <cfá< td=""><td>€È€FHÄ</td><td>à ÁÁ</td><td>ÞÖÁ</td><td></td><td></td></cfá<>	€È€FHÄ	à ÁÁ	ÞÖÁ		
75FMCD <m@@9b9cl=89< td=""><td></td><td></td><td></td><td></td><td></td></m@@9b9cl=89<>					
798FC@Á	€Ì€€Ë ÁÁ		ÞÖÁ		
5 @D<5!6=G56C@C@Á	€È€EÏ ÁÁ	ÃÁ	ÞÖÁ		
G56=B9B9 Á	€ÈE€Ï ÁÁ	à ÁÁ	ÞÖÁ		
G56=B9B9 < M8F5H9Á	€È€EË ÄÄ	ÃÁ	ÞÖÁ		
H9 F D=B9 C @ Á	€È€EË ÁÁ	ÃÁ	ÞÖÁ		
H9 F D=BC @9 B9 ∰	€È€€ÏÁ	ÃÁÁ	ÞÖÁ		
69H5!75FMCD <m@@9b9< td=""><td>€È€€ÏÁ</td><td>ÃÁÁ</td><td>ÞÖÁ</td><td></td><td></td></m@@9b9<>	€È€€ÏÁ	ÃÁÁ	ÞÖÁ		
HF 5 BG!B9 F C @8 C @Á	€È€€Ï ÁÁ	à Á	ÞÖÁ		
J5 @ B7 9 B9 [·] Á	€È€€ÏÁ	à Á	ÞÖÁ		
DI @9; CB9 [·] Á	€ÈEEÏ ÄÄ		ÞÖÁ		
5 @D<5!D<9 @@5 B8 F9 B9	€È€€Ï ÁÁ		ÞÖÁ		
C7 =A9B9 Ĥ	€ÈEEÏ ÄÄ		ÞÖÁ		
B9FC@ÁÁ	€È€EË ÁÁ	ÃÁÁ	ÞÖÁ		
@B5 @CC @ Á	€ÈE€Ï ÁÁ	ÃÁÁ	ÞÖÁ		
@ACB9B9 Á	€ÈE€ÏÁÁ	ÃÁÁ	ÞÖÁ		
; I 5=C @ÁÁ	€ÈE€Ï ÁÁ	ÃÁÁ	ÞÖÁ		
;9F5BM@579H5H9Ä	€È€€ÏÁ	à ÁÁ	ÞÖÁ		
; 9F5B=C@Á	€ÈE€Ï ÁÁ	ÃÁ	ÞÖÁ		
;5AA5!H9FD=B9B9ÁÄ	€È€EÏÁÁ		ÞÖÁ		
:9B7 <cb9á< td=""><td>€ÈE€ÏÁÁ</td><td>à ÁÁ</td><td>ÞÖÁ</td><td></td><td></td></cb9á<>	€ÈE€ÏÁÁ	à ÁÁ	ÞÖÁ		
: 5 F B9 G9 B9 ⁻ Á	€È€€Ï ÁÁ	ÃÁ	ÞÖÁ		
нску:		\$.			

HYfdYbYg [·]	@C8"	Ib]hg"	F Ygi `hfl	Ł
91 7 5 @MDHC @	€È€€Ï ÁÁ	ÃÁ	ÞÖÁ	
=GC6CFB9C@	€È€€Ï ÁÅ	ÃÁÁ	ÞÖÁ	
<9L5 <m8fch<mac@< td=""><td>€È€€Ï ÁÄ</td><td>à Á</td><td>ÞÖÁ</td><td></td></m8fch<mac@<>	€È€€Ï ÁÄ	à Á	ÞÖÁ	
:9B7 <m@5@7c<c@< th=""><th>€È€€Ï ÁÄ</th><th>à Á</th><th>ÞÖÁ</th><th></th></m@5@7c<c@<>	€È€€Ï ÁÄ	à Á	ÞÖÁ	
'!75F9B9	€È€€Ï ÁÄ	ÃÁÁ	ÞÖÁ	
7 =G!B9FC @8C@	€È€€Ï ÁÁ	ÃÁÁ	ÞÖÁ	
=GCDI @9; C@	€È€€Ï ÁÁ	ÃÁ	ÞÖÁ	

Terpenes

H9 GH9 8

5 bUrmnYX`VmiKY][\hi 9 lhfUWF]cb`XUhY ©ÖËF€ FÈE€EÍ*Á €ÎBeÌB©€

`9IhfUWhYX`6m ©⊞F€

FYj]YkYX`CbÁÄÆÍÐFÍЀÁ ≢bghfia Ybhil gYX∵Šã ǎãÁQb%&a‡}ÁÕÔTÙÁĴÚG€F€

FYU[Ybh	8]`ih]cbʻ	7 cbgi a g"₌8 [`]
€GFI GEÌÈF €FGFGEÈÜFHÁ	F€Á	FÌ €FFF CÌ €Ĩ Í HJÎ I Á

C. Kukowski LAB DIRECTOR



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Derma Thereal

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PASSED

Pesticides

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Res
BAMECTIN B1A	0.01	ppm	0.3	ND	METHOMYL	0.01	ppm	0.1	ND
CEPHATE	0.01	ppm	3	ND	METHYL PARATHION	0.005	ppm	0.1	ND
CEQUINOCYL	0.01	ppm	2	ND	MEVINPHOS	0.01	ppm	0.1	ND
CETAMIPRID	0.01	ppm	3	ND	MYCLOBUTANIL	0.01	ppm	3	ND
LDICARB	0.01	ppm	0.1	ND	NALED	0.025	ppm	0.5	ND
ZOXYSTROBIN	0.01	ppm	3	ND	OXAMYL	0.05	ppm	0.5	ND
BIFENAZATE	0.01	ppm	3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PHOSMET	0.01	ppm	0.2	ND
OSCALID	0.01	ppm	3	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
CAPTAN	0.07	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
ARBARYL	0.05	ppm	0.5	ND	PROPICONAZOLE	0.01	ppm	1	ND
ARBOFURAN	0.01	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
HLORANTRANILIPROLE	0.1	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
HLORFENAPYR	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
HLORMEQUAT CHLORIDE	0.05	ppm	3	ND	SPINETORAM	0.02	ppm	3	ND
HLORPYRIFOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
LOFENTEZINE	0.02	ppm	0.5	ND	SPIROTETRAMAT	0.01	ppm	3	ND
OUMAPHOS	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
YFLUTHRIN	0.05	ppm	1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
YPERMETHRIN	0.05	ppm	1	ND	THIACLOPRID	0.01	ppm	0.1	ND
AMINOZIDE	0.01	ppm	0.1	ND	THIAMETHOXAM	0.05	ppm	1	ND
IAZANON	0.01	ppm	0.2	ND	TOTAL CONTAMINANT LOAD	0	ppm	20	ND
ICHLORVOS	0.01	ppm	0.1	ND	(PESTICIDES)				
IMETHOATE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
IMETHOMORPH	0.02	ppm	3	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
THOPROPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
TOFENPROX	0.01	ppm	0.1	ND					
TOXAZOLE	0.01	ppm	1.5	ND				DAGG	
ENHEXAMID	0.01	ppm	3	ND	Pesticides			PASSE	: D
ENOXYCARB	0.01	ppm	0.1	ND					
ENPYROXIMATE	0.01	ppm	2	ND	Analyzed by Martin	E.t.	a dati	Entra de L.D.	
IPRONIL	0.01	ppm	0.1	ND	Analyzed by Weight	Extractio	n date	Extracted By	
LONICAMID	0.01	ppm	2	ND	ID-710 1.0501g	06/08/20		ID-710	
LUDIOXONIL	0.01	ppm	3	ND					
EXYTHIAZOX	0.01	ppm	2	ND	Reviewed On - 06/15/20				
AZALIL	0.01	ppm	0.1	ND	Instrument Used : Liquid Injection G	CMS QP201	C		
AIDACLOPRID	0.04	ppm	3	ND					
RESOXIM-METHYL	0.01	ppm	1	ND	Reagent Dilution		Con	sums. ID	
	0.02	ppm	2	ND	013120.28 10		180	111	
IETALAXYL	0.02	ppm	3	ND	031220.R10 032320.R17		2806	653964	
IETHIOCARB	0.01	ppm	0.1	ND	032320.R1/				

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Derma Thereal

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PASSED

Residual solvents

Solvent	LOD	Units	Action Level (PPM)	Pass/Fai	I Result	Analyzed by ID-710	Weight 0.0294g	Extraction dat	Extracted By ID-710
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND				
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND	Reviewed On -	06/15/20		
2-PROPANOL	45	ppm	500	PASS	ND	Instrument Us	ed : Headsp	ace GCMS	
ACETONE	67.5	ppm	750	PASS	ND				
ACETONITRILE	5.4	ppm	60	PASS	ND	Reagent	Dilution	G	onsums. ID
BENZENE	0.09	ppm	1	PASS	ND	Reugent	d		
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND		1		279984 31291-1
CHLOROFORM	0.18	ppm	2	PASS	ND				154107
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				

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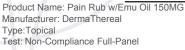
C. Kukowski LAB DIRECTOR

06-15-2020 Signed On Signature

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

Certificate of Analysis

Derma Thereal



Sample ID:-T073 Sample Size: 5ml Retail Product Size: 150mg/60ml/2oz Ordered :6/06/20 Sampled : 06/07/20 Completed: 06/15/20 Expires: 06/15/21 Sampling Method: SOP Client Method



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PASSED

Dilution

Extracted By

ID-710

50

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 <20µg/Kg.

LOD	Unit	Result	Action Level (PPM)
0.02	ppm	ND	.5
0.02	ppm	ND	0.5
0.05	ppm	ND	0.5
0.02	ppm	ND	3
	0.02 0.02 0.05	0.02 ppm 0.02 ppm 0.05 ppm	0.02 ppm ND 0.02 ppm ND 0.05 ppm ND

Extraction date

Analyte ASPERGILLUS FLAVUS ASPERGILLUS_FUMIGATUS ASPERGILLUS_NIGER ASPERGILLUS_TERREUS ESCHERICHIA_COLI_SHIGELLA_SPP SALMONELLA_SPECIFIC_GENE

TOTAL_YEAST_AND_MOLD

PASSED

Result not present in 1 gram. <100

0.2808g 06/07/20 Reviewed On - 06/15/20

Weight

Instrument Used : ICPMS-2030 B

Heavy Metals

Reagent

032420.R01

031820.R03 031820.R02 031920.R01

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	Consu	ims. ID
		18101	9-274

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 SOPT.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.

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Analyzed by ID-710