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

Certificate

of Analysis

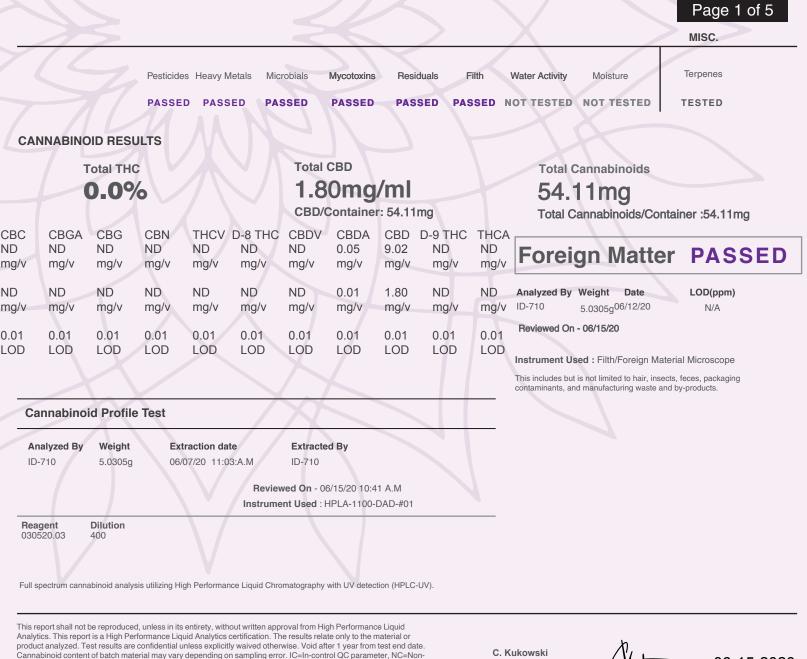
June 15, 2020 Derma Thereal

SAFETY RESULTS

PRODUCT IMAGE

Test: Non-Compliance Full-Panel Sample ID:-T071 Sample Size: 5ml Retail Product Size: 50mg/30ml/1oz Ordered : 06/06/20 Sampled : 06/07/20 Completed: 06/15/20 Expires: 06/15/21 Sampling Method: SOP Client Method

PASSED



product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. ICeln-control QC parameter, NC=Noncontrolled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Repro-ducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

C. Kukowski LAB DIRECTOR



For informational purposes only.

Product Name: Instant Freeze Rub 50MG

Manufacturer: DermaThereal

Type:Topical

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

Certificate of Analysis

Derma Thereal

Product Name: Instant Freeze Rub 50MG Manufacturer: DermaThereal Type:Topical Test: Non-Compliance Full-Panel

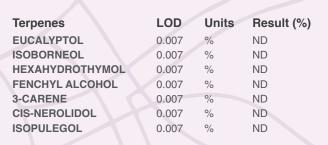
> Sample ID:-T070 Sample Size: 5ml Retail Product Size: 50mg/30ml/1oz Ordered : 06/06/20 Sampled : 06/07/20 Completed: 06/15/20 Expires: 06/15/21 Sampling Method: SOP Client Method PASSED

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Tested

Terpenes

Terpenes	LOD	Units	Result (%)
ALPHA-CEDRENEO	0.007	%	ND
ALPHA-HUMULENE	0.007	%	ND
ALPHA-PINENE	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND
BETA-MYRCENE	0.007	%	ND
BETA-PINENE	0.007	%	ND
BORNEOL	0.013	%	ND
CAMPHENE	0.007	%	ND
CAMPHOR	0.013	%	ND
CARYOPHYLLENE OXIDE			
CEDROL	0.007	%	ND
ALPHA-BISABOLOL	0.007	%	ND
SABINENE	0.007	%	ND
SABINENE HYDRATE	0.007	%	ND
TERPINEOL	0.007	%	ND
TERPINOLENE	0.007	%	ND
BETA-CARYOPHYLLENE	0.007	%	ND
TRANS-NEROLIDOL	0.007	%	ND
VALENCENE	0.007	%	ND
PULEGONE	0.007	%	ND
ALPHA-PHELLANDRENE	0.007	%	ND
OCIMENE	0.007	%	ND
NEROL	0.007	%	ND
LINALOOL	0.007	%	ND
LIMONENE	0.007	%	ND
GUAIOL	0.007	%	ND
GERANYL ACETATE	0.007	%	ND
GERANIOL	0.007	%	ND
GAMMA-TERPINENE	0.007	%	ND
FENCHONE	0.007	%	ND
FARNESENE	0.007	%	ND
Total		0	



Terpenes

TESTED

Analyzed by	Weight	Extraction date	Extracted By				
ID-710	1.0045g	06/08/20	ID-710				
Reviewed On - 06/15/20 08:16:22							

Instrument Used : Liquid Injection GCMS QP2010

Reagent	Dilution	Consums. ID
021420.11 012120.R13	10	180111 280653964

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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06-15-2020 Signed On Signature

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

Certificate of Analysis

Derma Thereal

Product Name: Instant Freeze Rub 50MG Manufacturer: DermaThereal Type:Topical Test: Non-Compliance Full-Panel

Sample ID:-T070 Sample Size: 5ml Retail Product Size: 50mg/30ml/1oz 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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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
FENAZATE	0.01	ppm	3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
FENTHRIN	0.01	ppm	0.5	ND	PHOSMET	0.01	ppm	0.2	ND
DSCALID	0.01	ppm	3	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
APTAN	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
RBOFURAN	0.01	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
ILORANTRANILIPROLE	0.1	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
ILORFENAPYR	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
ILORMEQUAT CHLORIDE	0.05	ppm	3	ND	SPINETORAM	0.02	ppm	3	ND
ILORPYRIFOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
OFENTEZINE	0.02	ppm	0.5	ND	SPIROTETRAMAT	0.01	ppm	3	ND
DUMAPHOS	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
FLUTHRIN	0.05	ppm	1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
PERMETHRIN	0.05	ppm	1	ND	THIACLOPRID	0.01	ppm	0.1	ND
MINOZIDE	0.01	ppm	0.1	ND	THIAMETHOXAM	0.05	ppm	1	ND
AZANON	0.01	ppm	0.2	ND	TOTAL CONTAMINANT LOAD	0	ppm	20	ND
CHLORVOS	0.01	ppm	0.1	ND	(PESTICIDES)		P.P.		
METHOATE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
METHOMORPH	0.02	ppm	3	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
HOPROPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
OFENPROX	0.01	ppm	0.1	ND		0.01	ppm	0	
OXAZOLE	0.01	ppm	1.5	ND					
	0.01	ppm	3	ND	Pesticides			PASSE	ED
ENOXYCARB	0.01	ppm	0.1	ND					
NPYROXIMATE	0.01	ppm	2	ND					
PRONIL	0.01	ppm	0.1	ND	Analyzed by Weight	Extractio	on date	Extracted By	
ONICAMID	0.01		2	ND	ID-710 1.0501g	06/08/20		ID-710	
UDIOXONIL	0.01	ppm ppm	2 3	ND					
XYTHIAZOX	0.01		2	ND	Reviewed On - 06/15/20				
		ppm			Instrument Used : Liquid Injection G	CMC OD001	0		
	0.01	ppm	0.1	ND	matument used : Liquid injection G	UNIS QP201	0		
	0.04	ppm	3	ND	Personal Dilution		0		
RESOXIM-METHYL	0.01	ppm	1	ND	Reagent Dilution 013120.28 10		180 ⁻	sums. ID	
ALATHION	0.02	ppm	2	ND	031220.R10			653964	
ETALAXYL	0.01	ppm	3	ND	032320.R17				
ETHIOCARB	0.01	ppm	0.1	ND					

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

Certificate of Analysis

Derma Thereal

Product Name: Instant Freeze Rub 50MG Manufacturer: DermaThereal Type:Topical Test: Non-Compliance Full-Panel

Sample ID:-T070 Sample Size: 5ml Retail Product Size: 50mg/30ml/1oz 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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PASSED

Residual solvents

Solvent	LOD	Units	Action Level (PPM)	Pass/Fai	Result	Analyzed by ID-710	Weight 0.0294g	Extraction date	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 Use	ed : Headsp	ace GCMS	
ACETONE	67.5	ppm	750	PASS	ND				
ACETONITRILE	5.4	ppm	60	PASS	ND	Reagent	Dilution	Con	sums. ID
BENZENE	0.09	ppm	1	PASS	ND	neagent	Dilution		
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND		1	0027	
CHLOROFORM	0.18	ppm	2	PASS	ND			2415	
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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Certificate of Analysis

Derma Thereal

Product Name: Instant Freeze Rub 50MG Manufacturer: DermaThereal Type:Topical Test: Non-Compliance Full-Panel

Heavy Metals

Weight

0.2808g

Sample ID:-T070 Sample Size: 5ml Retail Product Size: 50mg/30ml/1oz 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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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.

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC CADMIUM	0.02 0.02	ppm	ND ND	.5 0.5
LEAD	0.02	ppm ppm	ND	0.5
MERCURY	0.02	ppm	ND	3

Extraction date

06/07/20

Microbials

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

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

ID-710

Analyzed by

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
		181019	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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