

High Performance Liquid Analytics

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

Certificate of Analysis

June 15, 2020
Derma Thereal

For informational purposes only.

Product Name: Body Butter Moisturizer 20MG
Manufacturer: DermaThereal
Type: Topical
Test: Non-Compliance Full-Panel

PRODUCT IMAGE



Sample ID:-T072
Sample Size: 5ml
Retail Product Size: 20mg/112ml/3.8oz
Ordered : 06/06/20
Sampled : 06/07/20
Completed: 06/15/20
Expires: 06/15/21
Sampling Method: SOP Client Method

SAFETY RESULTS

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	TESTED

CANNABINOID RESULTS

Total THC
0.0%

Total CBD
.19mg/ml
CBD/Container: 21.64mg

Total Cannabinoids
21.64mg
Total Cannabinoids/Container: 21.84mg

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 0.97 mg/v	D-9 THC ND mg/v	THCA ND mg/v
ND _w mg/v	ND mg/v	ND mg/v	ND mg/v	ND mg/v	ND mg/v	ND mg/v	0.01 mg/v	0.19 mg/v	ND mg/v	ND mg/v
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

Foreign Matter PASSED

Analyzed By Weight Date LOD(ppm)
ID-710 .25ml. 06/12/20 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 Weight Extraction date Extracted By
ID-710 5ml 06/07/20 11:03:A.M ID-710
Reviewed On - 06/15/20
Instrument Used : HPLA-1100-DAD-#01

Reagent Dilution
030520.03 400

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

This report shall not be reproduced, unless in its entirety, without written approval from High Performance Liquid Analytics. This report is a High Performance Liquid Analytics certification. The results relate only to the material or 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. IC=In-control QC parameter, NC=Non-controlled 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


Signed On 06-15-2020

High Performance Liquid Analytics

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

Certificate of Analysis

Derma Thereal

Product Name: Body Butter Moisturizer 20MG
Manufacturer: DermaThereal
Type: Topical
Test: Non-Compliance Full-Panel

Sample ID: -T072
Sample Size: 5ml
Retail Product Size: 20mg/112ml/3.8oz
Ordered : 06/06/20
Sampled : 06/07/20
Completed: 06/15/20
Expires: 06/15/21
Sampling Method: SOP Client Method

PASSED

Page 3 of 5

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND	METHOMYL	0.01	ppm	0.1	ND
ACEPHATE	0.01	ppm	3	ND	METHYL PARATHION	0.005	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	2	ND	MEVINPHOS	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	MYCLOBUTANIL	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND	NALED	0.025	ppm	0.5	ND
AZOXYSTROBIN	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
BOSCALID	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
CARBARYL	0.05	ppm	0.5	ND	PROPICONAZOLE	0.01	ppm	1	ND
CARBOFURAN	0.01	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	SPINETORAM	0.02	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	SPIROTETRAMAT	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CYFLUTHRIN	0.05	ppm	1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CYPERMETHRIN	0.05	ppm	1	ND	THIACLOPRID	0.01	ppm	0.1	ND
DAMINOZIDE	0.01	ppm	0.1	ND	THIAMETHOXAM	0.05	ppm	1	ND
DIAZANON	0.01	ppm	0.2	ND	TOTAL CONTAMINANT LOAD	0	ppm	20	ND
DICHLORVOS	0.01	ppm	0.1	ND	(PESTICIDES)				
DIMETHOATE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
DIMETHOMORPH	0.02	ppm	3	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	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					

Pesticides

PASSED

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

Reviewed On - 06/15/20

Instrument Used : Liquid Injection GCMS QP2010

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

This report shall not be reproduced, unless in its entirety, without written approval from High Performance Liquid Analytics. This report is a High Performance Liquid Analytics certification. The results relate only to the material or 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. IC=In-control QC parameter, NC=Non-controlled 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


Signature

6-15-2020
Signed On

High Performance Liquid Analytics

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

Product Name: Body Butter Moisturizer 20MG
Manufacturer: DermaThereal
Type: Topical
Test: Non-Compliance Full-Panel

Sample ID: T072
Sample Size: 5ml
Retail Product Size: 20mg/112ml/3.8oz
Ordered: 06/06/20
Sampled: 06/07/20
Completed: 06/15/20
Expires: 06/15/21
Sampling Method: SOP Client Method

Certificate of Analysis

Derma Thereal

PASSED

Page 4 of 5

Residual solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result	Analyzed by	Weight	Extraction date	Extracted By
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND	ID-710	0.0294g	06/08/20	ID-710
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND	Reviewed On - 06/15/20			
2-PROPANOL	45	ppm	500	PASS	ND	Instrument Used : Headspace GCMS			
ACETONE	67.5	ppm	750	PASS	ND	Reagent	Dilution	Consums. ID	
ACETONITRILE	5.4	ppm	60	PASS	ND		1	00279984	
BENZENE	0.09	ppm	1	PASS	ND			161291-1	
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND			24154107	
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				

This report shall not be reproduced, unless in its entirety, without written approval from High Performance Liquid Analytics. This report is a High Performance Liquid Analytics certification. The results relate only to the material or 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. IC=In-control QC parameter, NC=Non-controlled 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


Signature

06-15-2020
Signed On

High Performance Liquid Analytics

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

Product Name: Body Butter Moisturizer 20MG
Manufacturer: DermaThereal
Type: Topical
Test: Non-Compliance Full-Panel

Sample ID:-T072
Sample Size: 5ml
Retail Product Size: 20mg/112ml/3.8oz
Ordered : 06/06/20
Sampled : 06/07/20
Completed: 06/15/20
Expires: 06/15/21
Sampling Method: SOP Client Method

Certificate of Analysis

Derma Thereal

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.T.40.065 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.

Heavy Metals

PASSED

Reagent	Dilution
032420.R01	50
031820.R03	
031820.R02	
031920.R01	
111319.02	

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	.5
CADMIUM	0.02	ppm	ND	0.5
LEAD	0.05	ppm	ND	0.5
MERCURY	0.02	ppm	ND	3

Microbials

PASSED

Analyte	Result
ASPERGILLUS_FLAVUS	not present in 1 gram.
ASPERGILLUS_FUMIGATUS	not present in 1 gram.
ASPERGILLUS_NIGER	not present in 1 gram.
ASPERGILLUS_TERREUS	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	not present in 1 gram.
TOTAL_YEAST_AND_MOLD	<100

Analyzed by	Weight	Extraction date	Extracted By
ID-710	0.2808g	06/07/20	ID-710

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

Reviewed On - 06/15/20
Instrument Used : PathogenDX PCR_Array Scanner, PathogenDX PCR_DA-171

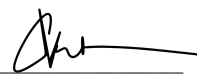
Analyzed by	Weight	Extraction date	Extracted By
ID-710	1.0197g	06/07/20	ID-710

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.

This report shall not be reproduced, unless in its entirety, without written approval from High Performance Liquid Analytics. This report is a High Performance Liquid Analytics certification. The results relate only to the material or 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. IC=In-control QC parameter, NC=Non-controlled 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


Signature
06-15-2020
Signed On