

## CBD Lotion

c/o Southern Sky Brands  
Company Name: Intrepid BioSciences      Sample Received: 07/09/2021  
Company Lot Number: N/A      Release Date: 07/16/2021  
Sample Matrix: Topical Applicant      APRC Lot Number: RMH210709C



Total THC 0.02 %	Total CBD 6.19 %	Cannabinoids 7.26 %
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Pesticides Tested	Microbial Tested	Residual Solvents Tested	Heavy Metals Tested	Terpene Analysis Not Tested
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Prepared By: Cierra Gunn

Reviewed By: Riley Hunter

## Residual Solvents Analysis Report

### Certificate of Analysis

#### CBD Lotion

Client Name: Intrepid BioSciences c/o Southern Sky Brands

Client Lot #: N/A

Sample Matrix: Topical Applicant

Sample Received: 07-09-2021

APRC Lot #: RMH210709C

Release Date: 07-13-2021

Analyte	Limit (µg/g)†	Concentration (µg/g)	Disposition
1,2 Dimethoxyethane	100	ND	Pass
1,4 Dioxane	380	ND	Pass
1-Butanol	5000	ND	Pass
1-Pentanol	5000	ND	Pass
1-Propanol	5000	ND	Pass
2-Butanol	5000	ND	Pass
2-Butanone	5000	ND	Pass
2-Ethoxyethanol	160	ND	Pass
2-methylbutane	5000	ND	Pass
2-Propanol (Isopropyl Alcohol)	5000	ND	Pass
Acetone	5000	ND	Pass
Acetonitrile	410	ND	Pass
Benzene	2	ND	Pass
Butane	5000	ND	Pass
Cumene	70	ND	Pass
Cyclohexane	3880	ND	Pass
Dichloromethane (Methylene Chloride)	600	ND	Pass
2,2-dimethylbutane	290	ND	Pass
2,3-dimethylbutane	290	ND	Pass
1,2-dimethylbenzene (o-Xylene)	See Xylenes	ND	Pass
1,3,4-dimethylbenzene (m,p-Xylene)	See Xylenes	ND	Pass
Dimethyl Sulfoxide (DMSO)	5000	ND	Pass
Ethanol	5000	ND	Pass
Ethyl Acetate	5000	ND	Pass
Ethylbenzene	See Xylenes	ND	Pass
Ethyl ether	5000	ND	Pass
Ethylene glycol	620	ND	Pass
Ethylene Oxide	50	NT	N/A
Heptane	5000	ND	Pass
Hexane	290	ND	Pass
Isopropyl acetate	5000	ND	Pass
Methanol	3000	ND	Pass
Methylpropane	5000	ND	Pass
2-Methylpentane	290	ND	Pass
3-Methylpentane	290	ND	Pass
N,N-dimethylacetamide	1090	ND	Pass
N,N-dimethylformamide	880	ND	Pass
Pentane	5000	ND	Pass
Propane	5000	ND	Pass
Pyridine	100	ND	Pass
Sulfolane	160	ND	Pass
Tetrahydrofuran	720	ND	Pass
Toluene	890	ND	Pass
Xylenes‡	2170	ND	Pass

† Per Utah state code 4-41a-701(3) Section R68-29-6

‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Prepared By: Ambika Poudel

Reviewed By: Dr. Prabodh Satyal

**Overall Disposition: Pass**

# HPLC Analysis Report

## Cannabinoid Profile Certificate of Analysis

Client: Intrepid BioSciences c/o Southern Sky Brands Date Received: 07-09-2021  
 Sample Name: CBD Lotion Date Tested: 07-12-2021  
 Sample Matrix: Topical Applicant APRC #: RMH210709C  
 Sample Lot: N/A

ID#	Cannabinoid	Ret. Time	Conc. (µg/mL)	% (w/w)	mg/g
1	Cannabidivarin (CBDV)	2.191	1.444	0.01	0.14
2	Cannabidiolic acid (CBDA)	ND	ND	N/A	N/A
3	Cannabigerolic acid (CBGA)	<LOQ	<LOQ	N/A	N/A
4	Cannabigerol (CBG)	3.058	104.037	1.00	10.04
5	Cannabidiol (CBD)	3.241	641.333	6.19	61.90
6	Tetrahydrocannabinarin (THCV)	<LOQ	<LOQ	N/A	N/A
7	Cannabinol (CBN)	<LOQ	<LOQ	N/A	N/A
8	Δ9-Tetrahydrocannabinol (Δ9-THC)	6.061	1.799	0.02	0.17
9	Δ8-Tetrahydrocannabinol (Δ8-THC)	<LOQ	<LOQ	N/A	N/A
10	Cannabichromene (CBC)	7.618	3.133	0.03	0.30
11	Δ9-Tetrahydrocannabinolic acid (THCA-A)	<LOQ	<LOQ	N/A	N/A

		%	mg/g
Analyzed by: <u>J. Morley</u>	Total Cannabinoids	7.26	72.56
	Total THC <sup>†</sup>	0.02	0.17
Reviewed by: <u>C. Gunn</u>	Total CBD <sup>‡</sup>	6.19	61.90

<sup>†</sup> Total THC is calculated by Δ9-THC +(THCA-A\*0.877)

<sup>‡</sup> Total CBD is calculated by CBD + (CBDA\*0.877)

Notes:

# PCR-Microarray Analysis Report

## Microbial Certificate of Analysis

Client: c/o Southern Sky Brands  
 Intrepid BioSciences  
 Date Received: 07-09-2021

Sample Name: CBD Lotion  
 Date Tested: 07-12-2021

Sample Matrix: Topical Applicant  
 APRC #: RMH210709C

Sample Lot: N/A

Total Counts			
Group	Result	Specification†	Disposition
Total Aerobic Bacteria	<100	≤100	Pass
Total Bile Tolerant Gram-Negative Bacteria	<100	Report Only	Tested
Total Enterobacteria/Coliforms	<100	Report Only	Tested
Total Yeast and Mold	<100	≤10	Pass

Specific Organism Identification			
Organism	Result	Specification†	Disposition
<i>Aspergillus flavus</i>	NT	NT	Not Tested
<i>Aspergillus fumigatus</i>	NT	NT	Not Tested
<i>Aspergillus niger</i>	NT	NT	Not Tested
<i>Aspergillus terreus</i>	NT	NT	Not Tested
<i>Escherichia coli</i> – Non shigella	ND	Report Only	Not Tested
<i>Escherichia coli</i> – <i>Shigella</i> spp.‡	ND	Report Only	Not Tested
<i>Listeria monocytogenes</i>	ND	Report Only	Not Tested
<i>Salmonella</i> – Specific Gene	ND	Report Only	Not Tested
<i>Staphylococcus aureus</i>	ND	ND	Pass
<i>Pseudomonas aeruginosa</i>	ND	ND	Pass

† - Per Utah State R68-29-8 requirements

‡ - Interpretation is based on presence of *Shigella* specific genes along with positive findings of STX1 and STX2 genes.

Analyzed by: J. Morley

Reviewed by: C. Gunn

**Notes:** Pathogen testing was not performed due to the global shortage of PCR clean pipette tips. For more information see <https://ag.utah.gov/2021/04/29/udaf-temporarily-adjusts-medical-cannabis-testing-protocols-due-to-global-shortages-of-laboratory-supplies/>.

**CBD Lotion\_RM210709C\_7122021\_1458 PM\_037**

Sample ID: RMH210709C

Date acquired: 7/13/2021 1:54:07 AM

Acquired by: Admin

Data File: C:\LabSolutions\Data\CBD Lotion\_RM210709C\_7122021\_1458 PM\_037.lcd

Vial: 78 | Inj. Volume: 1.0000uL | Tray: 1

Name	Conc.	Unit	Comment 1	Comment 2
Abamectin B1a	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Acephate	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Acequinocyl	----	ppm	2 ppm limit	LOQ = 0.0005 ppm
Acetamiprid	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Aldicarb	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Azoxystrobin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Bifenazate	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Bifenthrin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Boscalid	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Carbaryl	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Carbofuran	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Chlorantraniliprole	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Chlorfenapyr	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Chlorpyrifos	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Clofentezine	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Cyfluthrin	----	ppm	1 ppm limit	LOQ = 0.005 ppm
Cypermethrin	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Daminozide	----	ppm	1 ppm limit	LOQ = 0.01 ppm
Diazinon	----	ppm	0.2 ppm limit	LOQ = 0.005 ppm
Dichlorvos (DDVP)	----	ppm	0.1 ppm limit	LOQ = 0.0025 ppm
Dimethoate	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Ethoprophos	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Etofenprox	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Etoxazole	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Fenoxycarb	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Fenpyroximate	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Fipronil	----	ppm	0.4 ppm limit	LOQ = 0.005 ppm
Flonicamid	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Fludioxonil	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Hexythiazox	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Imazalil	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Imidacloprid	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Kresoxim-methyl	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Malathion	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Metalaxyl	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Methiocarb	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Methomyl	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
MGK 264 (Pyrodone)	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Myclobutanil	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Naled	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Oxamyl	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Paclobutrazol	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Parathion Methyl	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Permethrins	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Phosmet	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Piperonyl butoxide	----	ppm	2 ppm limit	LOQ = 0.0005 ppm
Prallethrin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Propiconazole	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Propoxur	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Pyrethrin I	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Pyrethrin II	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Pyridaben	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Spinosad A	----	ppm	0.1 ppm limit	LOQ = 0.0005 ppm
Spinosad D	----	ppm	0.1 ppm limit	LOQ = 0.0005 ppm
Spiromesifen	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Spirotetramat	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Spiroxamine	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Tebuconazole	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Thiacloprid	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Thiamethoxam	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Trifloxystrobin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm

 Comment :  
 Pass

## ICP-MS Analysis Report

### Heavy Metal Certificate of Analysis

c/o Southern Sky Brands  
Client: Intrepid BioSciences Date Received: 07/09/2021  
Sample Name: CBD Lotion Date Released: 07/16/2021  
Sample Matrix: Topical Applicant APRC #: RMH210709C  
Sample Lot: N/A

Analyte	Conc. (ppm)	Specification <sup>†</sup> (ppm)	Disposition
Arsenic	<0.001	< 2.00	Pass
Cadmium	0.024	< 0.82	Pass
Mercury	0.003	< 0.40	Pass
Lead	<0.001	< 1.20	Pass

Prepared by: Cierra Gunn

<sup>†</sup> - Per Utah State Code 4-41a-701 (3) section R68-29-7

Reviewed by: Riley Hunter