



## Comprehensive Analysis Report

### Sample Overview

Lot #: SFM1BB12/24

**Client:** Farmer & Chemist  
7719 South Main St.  
Midvale, UT 84047

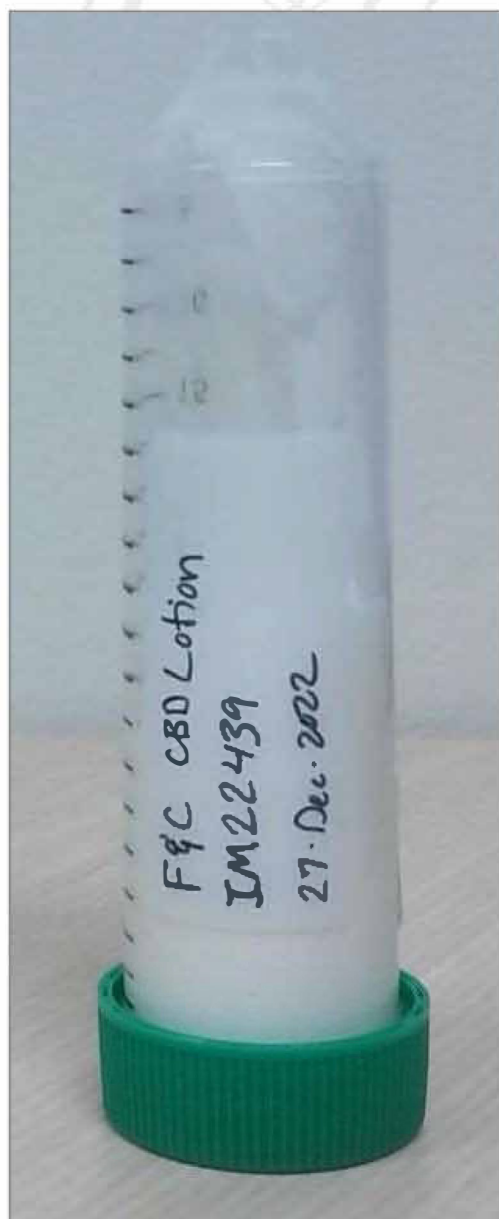
**Date Received:** 12/28/2022

**Sample Name:** F&C CBD Lotion

**APRC #:** RMH221229F

**Sample Matrix:** Topical Applicant

**Sample Lot:** IM22439



Assay	Disposition	Date Tested
Cannabinoid Testing (Potency)	Tested	12-29-2022
Heavy Metals - Utah State Cannabis Panel	Tested	01-03-2023
Microbial Impurities	Tested	12/29/2022
Pesticide Screen (APRC Panel)	Tested	12-30-2022
Residual Solvents	Tested	12-29-2022
Mycotoxin Quantitation	Tested	12-30-2022



Accreditation #115229

Aromatic Plant Research Center is an ISO 17025:2017 certified laboratory.



## Instrument Analysis Report

### Potency

Lot #: SFM1BB12/24

Method: SOP 1-2026.01

Sample Name: F&C CBD Lotion

APRC Lot Number: RMH221229F

Cannabinoid	RT	Total %	Total mg/g
Cannabidivarinic Acid (CBDVA)	ND	ND	ND
Cannabidivarin (CBDV)	ND	ND	ND
Cannabidiolic Acid (CBDA)	ND	ND	ND
Cannabigerolic Acid (CBGA)	ND	ND	ND
Cannabinol (CBN)	ND	ND	ND
Cannabidiol (CBD)	3.22	1.16	11.57
Cannabigerol (CBG)	3.06	0.25	2.49
Tetrahydrocannabivarin (THCV)	ND	ND	ND
Tetrahydrocannabivarin Acid (THCVA)	ND	ND	ND
Delta-9-Tetrahydrocannabinol ( $\Delta^9$ -THC)	ND	ND	ND
Delta-8-Tetrahydrocannabinol ( $\Delta^8$ -THC)	ND	ND	ND
Tetrahydrocannabinolic acid (THCA-A)	ND	ND	ND
Cannabichromene (CBC)	ND	ND	ND
Cannabichromene Acid (CBCA)	ND	ND	ND
$\Delta^10$ and $\Delta^6a,10a$ -Tetrahydrocannabinol	ND	ND	ND

Performed by: Sujan Timsina

Reviewed by: Spencer Kipfmueller

	%	mg/g
Total Cannabinoids	1.41	14.06
Total THC <sup>t</sup>	ND	ND
Total CBD <sup>s</sup>	1.16	11.57

<sup>t</sup>Total Thc is calculated by  $\Delta^9$ -THC + (THCA-A\*0.877)

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

LOD > 0.005% by mass, LOQ > 0.01% by mass



## Instrument Analysis Report

### Heavy Metals

Lot #: SFM1BB12/24

Method: CTLA

Sample Name: F&C CBD Lotion

APRC Lot Number: RMH221229F

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail
Arsenic	<0.001	0.001	2.00	Pass
Cadmium	<0.001	0.001	0.82	Pass
Lead	<0.001	0.001	1.20	Pass
Mercury	<0.001	0.001	0.40	Pass

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: William Deutschman



## Instrument Analysis Report

### Microbial Impurities

Lot #: SFM1BB12/24

Method: SOP 1-2034.01

Sample Name: F&C CBD Lotion

APRC Lot Number: RMH221229F

Total Counts			
Microbial Group:	Result (CFU/g):	Specification:	Disposition:
Total Aerobic Bacteria	<10	≤100	Pass
Total Yeast and Mold	<10	≤100	Pass

Specific Organism Identification			
Microbial Organism:	Result:	Specification:	Disposition:
Aspergillus flavus	ND	Report Only	Tested
Aspergillus fumigatus	ND	Report Only	Tested
Aspergillus niger	ND	Report Only	Tested
Aspergillus terreus	ND	Report Only	Tested
Escherichia coli - Non shigella	ND	Not Detected	Pass
Escherichia coli - Shigella spp	ND	Not Detected	Pass
STEC	ND	Report Only	Tested
Listeria monocytogenes	ND	Report Only	Tested
Salmonella - Specific Gene	ND	Report Only	Tested
Staphylococcus aureus	ND	Not Detected	Pass
Pseudomonas aeruginosa	ND	Not Detected	Pass

Performed by: Jordan Morley

Notes: Foreign Matter: Not Detected.

Reviewed by: Riley Hunter



# Instrument Analysis Report

## Pesticides

Lot #: SFM1BB12/24

Method:

Sample Name: F&C CBD Lotion

APRC Lot Number: RMH221229F

Pesticide:	Finding	Action Limit (µg/g)	Pass/Fail
Abamectin	ND	0.5	Pass
Acephate	ND	0.4	Pass
Acequinocyl	ND	2.0	Pass
Acetamiprid	ND	0.2	Pass
Aldicarb	ND	0.4	Pass
Azoxystrobin	ND	0.2	Pass
Bifenazate	ND	0.2	Pass
Bifenthrin	ND	0.2	Pass
Boscalid	ND	0.4	Pass
Carbaryl	ND	0.2	Pass
Carbofuran	ND	0.2	Pass
Chlorantraniliprole	ND	0.2	Pass
Chlorfenapyr	ND	1.0	Pass
Chlorpyrifos	ND	0.2	Pass
Clofentezine	ND	0.2	Pass
Cyfluthrin	ND	1.0	Pass
Cypermethrin	ND	1.0	Pass
Daminozide	ND	1.0	Pass
Dichlorvos	ND	0.1	Pass
Diazinon	ND	0.2	Pass
Dimethoate	ND	0.2	Pass
Ethoprophos	ND	0.2	Pass
Etofenprox	ND	0.4	Pass
Etoxazole	ND	0.2	Pass
Fenoxycarb	ND	0.2	Pass
Fenpyroximate	ND	0.4	Pass
Fipronil	ND	0.4	Pass
Fonicamid	ND	1.0	Pass
Fludioxonil	ND	0.4	Pass

Pesticide:	Finding	Action Limit (µg/g)	Pass/Fail
Hexythiazon	ND	1.0	Pass
Imazal	ND	0.2	Pass
Imidacloprid	ND	0.4	Pass
Kresoxim-methyl	ND	0.4	Pass
Malathion A	ND	0.2	Pass
Metalaxyl	ND	0.2	Pass
Methiocarb	ND	0.2	Pass
Methomyl	ND	0.4	Pass
Methylparathion	ND	0.2	Pass
MGK-264	ND	0.2	Pass
Myclobutanil	ND	0.2	Pass
Naled	ND	0.5	Pass
Oxamyl	ND	1.0	Pass
Paclobutrazol	ND	0.4	Pass
Permethrins	ND	0.2	Pass
Phosmet	ND	0.2	Pass
Piperonylbutoxide	ND	2.0	Pass
Prallethrin	ND	0.2	Pass
Propiconazole	ND	0.4	Pass
Propoxur	ND	0.2	Pass
Pyrethrin	ND	1.0	Pass
Pyridaben	ND	0.2	Pass
Spinosad	ND	0.2	Pass
Spinetoram	ND	0.1	Pass
Spirotetramat	ND	0.2	Pass
Spiroxamine	ND	0.4	Pass
Tebuconazole	ND	0.4	Pass
Thiacloprid	ND	0.2	Pass
Thiamethoxam	ND	0.2	Pass
Trifloxystrobin	ND	0.2	Pass

Performed by:

Noura  
Ahmed

Reviewed by:

Prabodh  
Satyal





## Instrument Analysis Report

### Residual Solvents

Lot #: SFM1BB12/24

Method: SOP 1-2027.02

Sample Name: F&C CBD Lotion

APRC Lot Number: RMH221229F

Residual Solvent	Finding (µg/g)	Action Level (µg/g)	Pass/Fail
Dimethyl sulfoxide	ND	5000	Pass
N,N-dimethylacetamide	ND	1090	Pass
1,2 Dimethoxyethane	ND	100	Pass
1,4 Dioxane	ND	380	Pass
1-Butanol	ND	5000	Pass
1-Pentanol	ND	5000	Pass
1-Propanol	ND	5000	Pass
2-Butanone	ND	5000	Pass
2-Butanol	ND	5000	Pass
2-Ethoxyethanol	ND	160	Pass
2-Methylbutane	ND	5000	Pass
2-Propanol	19,165	5000	Pass
Acetone	ND	5000	Pass
Acetonitrile	ND	410	Pass
Benzene	ND	2	Pass
Butane	ND	5000	Pass
Cumene	ND	70	Pass
Cyclohexane	ND	3880	Pass
Dichloromethane	ND	600	Pass
2,2-Dimethylbutane	ND	290	Pass
2,3-Dimethylbutane	ND	290	Pass
m,p-Xylene	ND	See Total Xylenes	Pass
o-Xylene	ND	See Total Xylenes	Pass
Ethanol	23,144	5000	Pass
Ethyl Acetate	ND	5000	Pass
Ethyl Benzene	ND	See Total Xylenes	Pass
Ethyl Ether	ND	5000	Pass
Ethylene Glycol	ND	620	Pass
Ethylene Oxide	ND	50	Pass

Residual Solvent	Finding (µg/g)	Action Level (µg/g)	Pass/Fail
Heptane	ND	5000	Pass
Hexane	ND	290	Pass
Isopropyl Acetate	ND	5000	Pass
Methanol	ND	3000	Pass
Methylpropane	ND	5000	Pass
2-Methylpentane	ND	290	Pass
3-Methylpentane	ND	290	Pass
N,N-Dimethylformamide	ND	880	Pass
Pentane	ND	5000	Pass
Propane	ND	5000	Pass
Pyridine	ND	100	Pass
Sulfolane	ND	160	Pass
Tetrahydrofuran	ND	720	Pass
Toluene	ND	890	Pass
Total Xylenes	ND	2170	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

Overall Disposition: Pass  
Performed By: Anil Rokaya  
Reviewed By: Riley Hunter



## Instrument Analysis Report

### Mycotoxins

Lot #: SFM1BB12/24

Method: Mycotoxin

Sample Name: F&C CBD Lotion

APRC Lot Number: RMH221229F

Mycotoxin	Finding (µg/kg)	Limit(µg/kg)	Pass/Fail
Aflatoxin B1:	ND		
Aflatoxin B2:	ND		
Aflatoxin G1:	ND		
Aflatoxin G2:	ND		
Total Aflatoxins:	0	20	Pass
Ochratoxin A:	ND	20	Pass

Performed by: Noura Ahmed

Reviewed by: Prabodh Satyal

**Approved By:**  
William A. Deutschman, Ph.D.  
Laboratory Director - APRC Lehi  
01/05/2023



Utah Department of Agriculture and Food  
**Division of Laboratory Services**  
4451 South 2700 West  
Taylorsville, Utah 84129  
(801) 816-3840



## CERTIFICATE OF ANALYSIS

Lot #: SFM1BB12/24

### Sample Information

<b>UDAF Lab #</b>	HP23349-10	<b>Issue Date:</b>	12/19/2023
<b>Client:</b>	Farmer & Chemist	<b>Client Email:</b>	steven@farmerandchemist.com
<b>Producer:</b>	Farmer & Chemist	<b>Sample Type:</b>	Transdermal
<b>Description:</b>	Youth Boost Skinfra-structure		
<b>Batch/Lot Number:</b>	SFM1BB12/24	<b>Date Received:</b>	12/15/2023
<b>Date Collected:</b>	-	<b>Collected By:</b>	Self-Submitted

Notes:



### Testing Summary

**Status:** PASS

<b>Analysis:</b>	<b>Testing Date:</b>	<b>Status:</b>	<b>Notes:</b>
Cannabinoids	12/19/2023	PASS	

Approved By:

Brandon Forsyth, Ph.D  
State Chemist

Date: 12/19/2023

The results reported herein pertain only to the indicated sample and may not be used as an endorsement of a product. The results are given under applicable provisions of the Utah Code and represent a true statement of the outcomes of the analyses conducted on the sample received by the laboratory. This report may not be reproduced, except in its entirety. © 2023 All Rights Reserved.





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## CERTIFICATE OF ANALYSIS

Lot #: SFM1BB12/24

### Cannabinoid Analysis

Status: PASS

<b>Sample ID:</b>	HP23349-10	<b>Description:</b>	Youth Boost Skinfra-structure
<b>Testing Date:</b>	12/19/2023	<b>Reviewed By:</b>	Cameron Cheyne

Method: ACL.AM.003 Analysis performed using High-Performance Liquid Chromatography (HPLC-DAD)

Analyte	Abbreviation	CAS Number	% (w/w)	mg/g
$\Delta$ 9-Tetrahydrocannabinidiol	$\Delta$ 9-THC	1972-08-03	ND	ND
$\Delta$ 8-Tetrahydrocannabinidiol	$\Delta$ 8-THC	5957-75-5	ND	ND
$\Delta$ 9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
$\Delta$ 9-Tetrahydrocannabivarin	THCV	31262-37-0	ND	ND
Cannabidiol	CBD	13956-29-1	1.08%	10.8
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	ND	ND
Cannabinol	CBN	521-35-7	ND	ND
Cannabigerol	CBG	25654-31-3	0.23%	2.3
Cannabichromene	CBC	20675-51-8	ND	ND
Cannabigerolic acid	CBGA	25555-57-1	ND	ND
Cannabichromenic acid	CBCA	20408-52-0	ND	ND
Cannabicitran	CBTC	31508-71-1	ND	ND
9(R+S)- $\Delta$ 6a,10a-Tetrahydrocannabinidiol	$\Delta$ 3-THC	95720-01-07, 95720-02-8	ND	ND
(6aR,9R)- $\Delta$ 10-Tetrahydrocannabinidiol	(6aR,9R)- $\Delta$ 10-THC	95543-62-7	ND	ND
(6aR,9S)- $\Delta$ 10-Tetrahydrocannabinidiol	(6aR,9S)- $\Delta$ 10-THC	95588-87-7	ND	ND
<b>Total Cannabinoids</b>			1.31%	13.10
Total THC			ND	ND
Total CBD			1.08%	10.80
Total THC Analogs			ND	ND

Unknown Cannabinoid Peak Area: 0.0%

Status: PASS

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values.

Total THC is calculated as  $\Delta$ 9-THC + (THCA x 0.877).

Total CBD is calculated as CBD + (CBDA x 0.877).

Total THC Analogs is calculated as  $\Delta$ 9-THC + (THCA x 0.877) +  $\Delta$ 8-THC + CBTC.

ND = Not Detected, NQ = Not Quantifiable, NT = Not Tested, <LOQ = Below the limit of quantification

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