



Comprehensive Analysis Report

Sample Overview

Lot #: PSCVBB725

Client: Farmer and Chemist

44 Main Street, American Fork, UT
84003

Date Received: 06/07/2023

APRC #: RMH230607B

Sample Name: Problem Salved - Van/Cham

Sample Matrix: Topical Applicant

Sample Lot: IM23254

| Assay | Disposition | Date Tested |
|--|-------------|-------------|
| Hemp or R&D Cannabinoid Testing (Potency) | Tested | 06-08-2023 |
| Heavy Metals - Utah State Cannabis Panel | Tested | 06-13-2023 |
| Microbial: Quantitative Bacteria/Yeast/ Mold | Tested | 06-09-2023 |
| Pesticide Screen (APRC Panel) | Tested | 6-16-2023 |
| Hemp or R&D Residual Solvents | Tested | 06-08-2023 |
| Mycotoxin Quantitation | Tested | 06-18-2023 |



Accreditation #115229

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Instrument Analysis Report

Potency

Lot #: PSCVBB725

Method: SOP 1-2026.03

Sample Name: Problem Salved - Van/Cham

APRC Lot Number: RMH230607B

| 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) | 4.76 | 0.02 | 0.24 |
| Cannabidiol (CBD) | 3.24 | 7.48 | 74.81 |
| Cannabigerol (CBG) | 3.08 | 1.95 | 19.47 |
| Tetrahydrocannabivarin (THCV) | ND | ND | ND |
| Tetrahydrocannabivarin Acid (THCVA) | ND | ND | ND |
| Delta-9-Tetrahydrocannabinol (Δ9-THC) | 5.97 | 0.23 | 2.30 |
| Delta-8-Tetrahydrocannabinol (Δ8-THC) | ND | ND | ND |
| Tetrahydrocannabinolic acid (THCA-A) | ND | ND | ND |
| Cannabichromene (CBC) | 7.49 | 0.32 | 3.15 |
| Cannabichromene Acid (CBCA) | ND | ND | ND |
| Δ10 and Δ6a,10a-Tetrahydrocannabinol | ND | ND | ND |

Performed by: Sujan Timsina

Reviewed by: Tessa Crook

| | % | mg/g |
|------------------------|-------|-------|
| Total Cannabinoids | 10.00 | 99.98 |
| Total THC ^t | 0.23 | 2.30 |
| Total CBD ^s | 7.48 | 74.81 |

^tTotal Thc is calculated by Δ9-THC + (THCA-A*0.877)

^sTotal CBD is calculated by CBD + (CBDA*0.877)

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



Instrument Analysis Report

Heavy Metals

Lot #: PSCVBB725

Method: CTLA

Sample Name: Problem Salved - Van/Cham

APRC Lot Number: RMH230607B

| 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 | 0.017 | 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: Jordan Morley



Instrument Analysis Report

Microbial Impurities

Lot #: PSCVBB725

Method: SOP 1-2034.01

Sample Name: Problem Salved - Van/Cham

APRC Lot Number: RMH230607B

| 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: Tessa Crook



Instrument Analysis Report

Pesticides

Lot #: PSCVBB725

Method:

Sample Name: Problem Salved - Van/Cham

APRC Lot Number: RMH230607B

| 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 |
| Flonicamid | 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

Pesticide testing performed in a non-ISO 17025:2017 accredited facility.



Instrument Analysis Report

Residual Solvents

Lot #: PSCVBB725

Method: SOP 1-2027.03

Sample Name: Problem Salved - Van/Cham

APRC Lot Number: RMH230607B

| 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 | ND | 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 | ND | 5000 | Pass |
| Ethyl Acetate | 23.811 | 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 #: PSCVBB725

Method: Mycotoxin

Sample Name: Problem Salved - Van/Cham

APRC Lot Number: RMH230607B

| 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:
Jordan Morley
Laboratory Supervisor

06/20/2023