

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

cbdMD

CBD OIL

DATE ISSUED 11/20/2021

SAMPLE NAME: cbdMD 60 count 3000 mg Softgels

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

SAMPLE DETAIL

Batch Number: 13061C6 Sample ID: 211116N001

DISTRIBUTOR / TESTED FOR Business Name: cbdMD License Number:

Address:

Date Collected: 11/16/2021 Date Received: 11/16/2021 Batch Size: Sample Size: 1.0 units Unit Mass: 33.8884 grams per Unit Serving Size: 0.5648 grams per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

| Total THC: Not Detected Total CBD: 3769.373 mg/unit Sum of Cannabinoids: 3800.855 mg/u Total Cannabinoids: 3800.855 mg/un | Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step: Total THC = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + CBG + CBCa + CBC4 + CBDV + CBDVa + Δ 8THC + CBL + CBN Total Cannabinoids = (Δ 9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ 8THC + CBL + CBN | |
|--|---|------------------------------------|
| TERPENOID ANALYSIS - SUMMARY | , | 39 TESTED, TOP 3 HIGHLIGHTED |
| Total Terpenoids: 0.1507% | Limonene 1.254 mg/g 🛛 🔵 α Bisabolol 0.253 mg | l/g 💿 α Pinene <loq< th=""></loq<> |
| SAFETY ANALYSIS - SUMMARY | | |
| Pesticides: PASS | Mycotoxins: OPASS | Residual Solvents: PASS |

Heavy Metals: **OPASS**

Foreign Material: **OPASS**

Microbiology (PCR): **PASS**

Microbiology (Plating):
PASS

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states. Action limits for required tests are either state-specific, or the lower of any conflicting state regulations based upon the panel requested.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS – Results within limits/specifications. FAIL – Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Josh Antunovich Date: 11/20/2021

pproved by: Josh Wurzer, President ate: 11/20/2021

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Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: Not Detected

Total THC (∆9THC+0.877*THCa)

TOTAL CBD: 3769.373 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 3800.855 mg/uni

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ 8THC + CBL + CBN

TOTAL CBG: 18.605 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: ND

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 5.964 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 11/17/2021

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|--------------|-------------------|-----------------------------------|------------------|---------------|
| CBD | 0.004/0.011 | ±5.3279 | 111.229 | 11.1229 |
| CBG | 0.002/0.006 | ±0.0341 | 0.549 | 0.0549 |
| CBN | 0.001/0.007 | ±0.0075 | 0.204 | 0.0204 |
| CBDV | 0.002/0.012 | ±0.0092 | 0.176 | 0.0176 |
| Δ9THC | 0.002/0.014 | N/A | ND | ND |
| ∆8THC | 0.01/0.02 | N/A | ND | ND |
| THCa | 0.001 / 0.005 | N/A | ND | ND |
| THCV | 0.002/0.012 | N/A | ND | ND |
| THCVa | 0.002/0.019 | N/A | ND | ND |
| CBDa | 0.001/0.026 | N/A | ND | ND |
| CBDVa | 0.001/0.018 | N/A | ND | ND |
| CBGa | 0.002/0.007 | N/A | ND | ND |
| CBL | 0.003/0.010 | N/A | ND | ND |
| СВС | 0.003/0.010 | N/A | ND | ND |
| CBCa | 0.001/0.015 | N/A | ND | ND |
| SUM OF CANNA | BINOIDS | | 112.158 mg/g | 11.2158% |

Unit Mass: 33.8884 grams per Unit / Serving Size: 0.5648 grams per Serving

| Δ9THC per Unit | ND |
|---------------------------------|-------------------|
| Δ9THC per Serving | ND |
| Total THC per Unit | ND |
| Total THC per Serving | ND |
| CBD per Unit | 3769.373 mg/unit |
| CBD per Serving | 62.822 mg/serving |
| Total CBD per Unit | 3769.373 mg/unit |
| Total CBD per Serving | 62.822 mg/serving |
| Sum of Cannabinoids per Unit | 3800.855 mg/unit |
| Sum of Cannabinoids per Serving | 63.347 mg/serving |
| Total Cannabinoids per Unit | 3800.855 mg/unit |
| Total Cannabinoids per Serving | 63.346 mg/serving |



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🔊 Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

1 Limonene

A monoterpene with a fragrance that can be described as orangey, citrusy, sweet and tart. It is most commonly found in nature as D-Limonene and is a primary contributor to the distinct scent of orange peels, from which it is commonly derived. Found in numerous pines, red maple, silver maple, aspens, cottonwoods, hemlocks, sumac, cedar, junipers...etc.

α Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

α Pinene

One of two isomers of the monoterpene Pinene, the most abundant terpene in the natural world. It is responsible for the distinct aroma of many coniferous trees, particularly pines, from which it derives its name. It is a primary constituent of turpentine. Found in pines, rose gun, parsley, frankincense, guava, juniper, rosemary, nutmeg, blue gum, valerian...etc.



TERPENOID TEST RESULTS - 11/18/2021

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|-----------------------|-------------------|-----------------------------------|---|---------------------|
| Limonene | 0.005/0.016 | ±0.0179 | 1.254 | 0.1254 |
| α Bisabolol | 0.008/0.026 | ±0.0135 | 0.253 | 0.0253 |
| α Pinene | 0.005/0.017 | N/A | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| Myrcene | 0.008/0.025 | N/A | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| Camphene | 0.005/0.015 | N/A | ND | ND |
| Sabinene | 0.004/0.014 | N/A | ND | ND |
| β Pinene | 0.004/0.014 | N/A | ND | ND |
| α Phellandrene | 0.006 / 0.020 | N/A | ND | ND |
| 3 Carene | 0.005/0.018 | N/A | ND | ND |
| α Terpinene | 0.005/0.017 | N/A | ND | ND |
| p-Cymene | 0.005/0.016 | N/A | ND | ND |
| Eucalyptol | 0.006 / 0.018 | N/A | ND | ND |
| Ocimene | 0.011/0.038 | N/A | ND | ND |
| γTerpinene | 0.006 / 0.018 | N/A | ND | ND |
| Sabinene Hydrate | 0.006 / 0.022 | N/A | ND | ND |
| Fenchone | 0.009/0.028 | N/A | ND | ND |
| Terpinolene | 0.008 / 0.026 | N/A | ND | ND |
| Linalool | 0.009/0.032 | N/A | ND | ND |
| Fenchol | 0.010/0.034 | N/A | ND | ND |
| (-)-lsopulegol | 0.005/0.016 | N/A | ND | ND |
| Camphor | 0.006/0.019 | N/A | ND | ND |
| Isoborneol | 0.004/0.012 | N/A | ND | ND |
| Borneol | 0.005/0.016 | N/A | ND | ND |
| Menthol | 0.008/0.025 | N/A | ND | ND |
| Terpineol | 0.016/0.055 | N/A | ND | ND |
| Nerol | 0.003/0.011 | N/A | ND | ND |
| Citronellol | 0.003/0.010 | N/A | ND | ND |
| R-(+)-Pulegone | 0.003/0.011 | N/A | ND | ND |
| Geraniol | 0.002/0.007 | N/A | ND | ND |
| Geranyl Acetate | 0.004 / 0.014 | N/A | ND | ND |
| α Cedrene | 0.005/0.016 | N/A | ND | ND |
| β Caryophyllene | 0.004 / 0.012 | N/A | ND | ND |
| trans-β-Farnesene | 0.008 / 0.025 | N/A | ND | ND |
| α Humulene | 0.009/0.029 | N/A | ND | ND |
| Valencene | 0.009/0.030 | N/A | ND | ND |
| Nerolidol | 0.009/0.028 | N/A | ND | ND |
| Caryophyllene Oxide | 0.010/0.033 | N/A | ND | ND |
| Guaiol | 0.009/0.030 | N/A | ND | ND |
| Cedrol | 0.008 / 0.027 | N/A | ND | ND |
| TOTAL TERPENOIDS | | | 1.507 mg/g | 0.1507% |

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Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

Exclusions¹ see last page

Exclusions² see last page



| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Abamectin | 0.03/0.10 | 0.3 | N/A | ND | PASS |
| Acephate | 0.02/0.07 | 5 | N/A | ND | PASS |
| Acequinocyl | 0.02/0.07 | 4 | N/A | ND | PASS |
| Acetamiprid | 0.02/0.05 | 5 | N/A | ND | PASS |
| Aldicarb | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Azoxystrobin | 0.02/0.07 | 40 | N/A | ND | PASS |
| Bifenazate | 0.01/0.04 | 5 | N/A | ND | PASS |
| Bifenthrin | 0.02/0.05 | 0.5 | N/A | ND | PASS |
| Boscalid | 0.03/0.09 | 10 | N/A | ND | PASS |
| Captan | 0.19/0.57 | 5 | N/A | ND | PASS |
| Carbaryl | 0.02/0.06 | 0.5 | N/A | ND | PASS |
| Carbofuran | 0.02/0.05 | ≥LOD | N/A | ND | PASS |
| Chlorantraniliprole | 0.04/0.12 | 40 | N/A | ND | PASS |
| Chlordane* | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Chlorfenapyr* | 0.03/0.10 | ≥LOD | N/A | ND | PASS |
| Chlorpyrifos | 0.02/0.06 | ≥LOD | N/A | ND | PASS |
| Clofentezine | 0.03/0.09 | 0.5 | N/A | ND | PASS |
| Coumaphos | 0.02/0.07 | ≥LOD | N/A | ND | PASS |
| Cyfluthrin | 0.12/0.38 | 1 | N/A | ND | PASS |
| Cypermethrin | 0.11/0.32 | 1 | N/A | ND | PASS |
| Daminozide | 0.02/0.07 | ≥LOD | N/A | ND | PASS |
| DDVP (Dichlorvos) | 0.03/0.09 | ≥LOD | N/A | ND | PASS |
| Diazinon | 0.02/0.05 | 0.2 | N/A | ND | PASS |
| Dimethoate | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Dimethomorph | 0.03/0.09 | 20 | N/A | ND | PASS |
| Ethoprop(hos) | 0.03/0.10 | ≥LOD | N/A | ND | PASS |
| Etofenprox | 0.02/0.06 | ≥LOD | N/A | ND | PASS |
| Etoxazole | 0.02/0.06 | 1.5 | N/A | ND | PASS |
| Fenhexamid | 0.03/0.09 | 10 | N/A | ND | PASS |
| Fenoxycarb | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Fenpyroximate | 0.02/0.06 | 2 | N/A | ND | PASS |
| Fipronil | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Flonicamid | 0.03/0.10 | 2 | N/A | ND | PASS |
| Fludioxonil | 0.03/0.10 | 30 | N/A | ND | PASS |
| Hexythiazox | 0.02/0.07 | 2 | N/A | ND | PASS |
| Imazalil | 0.02/0.06 | _ ≥ LOD | N/A | ND | PASS |
| Imidacloprid | 0.04 / 0.11 | 3 | N/A | ND | PASS |
| Kresoxim-methyl | 0.02/0.07 | 1 | N/A | ND | PASS |
| Malathion | 0.03/0.09 | 5 | N/A | ND | PASS |
| Metalaxyl | 0.02/0.07 | 15 | N/A | ND | PASS |
| Methiocarb | 0.02/0.07 | ≥ LOD | N/A | ND | PASS |



Continued on next page

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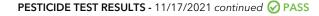


Pesticide Analysis Continued

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS



| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Methomyl | 0.03/0.10 | 0.1 | N/A | ND | PASS |
| Methyl parathion | 0.03/0.10 | ≥LOD | N/A | ND | PASS |
| Mevinphos | 0.03/0.09 | ≥LOD | N/A | ND | PASS |
| Myclobutanil | 0.03/0.09 | 9 | N/A | ND | PASS |
| Naled | 0.02/0.07 | 0.5 | N/A | ND | PASS |
| Oxamyl | 0.04/0.11 | 0.2 | N/A | ND | PASS |
| Paclobutrazol | 0.02/0.05 | ≥LOD | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.03/0.09 | 0.2 | N/A | ND | PASS |
| Permethrin | 0.04/0.12 | 20 | N/A | ND | PASS |
| Phosmet | 0.03/0.10 | 0.2 | N/A | ND | PASS |
| Piperonylbutoxide | 0.02/0.07 | 8 | N/A | ND | PASS |
| Prallethrin | 0.03/0.08 | 0.4 | N/A | ND | PASS |
| Propiconazole | 0.02/0.07 | 20 | N/A | ND | PASS |
| Propoxur | 0.03/0.09 | ≥LOD | N/A | ND | PASS |
| Pyrethrins | 0.04/0.12 | 1 | N/A | ND | PASS |
| Pyridaben | 0.02/0.07 | 3 | N/A | ND | PASS |
| Spinetoram | 0.02/0.07 | 3 | N/A | ND | PASS |
| Spinosad | 0.02/0.07 | 3 | N/A | ND | PASS |
| Spiromesifen | 0.02 / 0.05 | 12 | N/A | ND | PASS |
| Spirotetramat | 0.02/0.06 | 13 | N/A | ND | PASS |
| Spiroxamine | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Tebuconazole | 0.02/0.07 | 2 | N/A | ND | PASS |
| Thiacloprid | 0.03/0.10 | ≥LOD | N/A | ND | PASS |
| Thiamethoxam | 0.03/0.10 | 4.5 | N/A | ND | PASS |
| Trifloxystrobin | 0.03/0.08 | 30 | N/A | ND | PASS |

្លំ🖗 Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

Exclusions³ see last page

MYCOTOXIN TEST RESULTS - 11/17/2021 🔗 PASS

| | COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|---|-----------------|--------------------|-------------------------|------------------------------------|-------------------|--------|
| | Aflatoxin B1 | 2.0/6.0 | | N/A | ND | |
| Ī | Aflatoxin B2 | 1.8 / 5.6 | | N/A | ND | |
| Ī | Aflatoxin G1 | 1.0/3.1 | | N/A | ND | |
| | Aflatoxin G2 | 1.2 / 3.5 | | N/A | ND | |
| | Total Aflatoxin | | 20 | | ND | PASS |
| | Ochratoxin A | 6.3 / 19.2 | 20 | N/A | ND | PASS |



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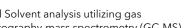
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Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

Exclusions⁴ see last page



RESIDUAL SOLVENTS TEST RESULTS - 11/19/2021 @ PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (μg/g) | RESULT (µg/g) | RESULT |
|--------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Propane | 10/20 | 5000 | N/A | ND | PASS |
| Butane | 10/50 | 5000 | N/A | ND | PASS |
| Pentane | 20/50 | 5000 | N/A | ND | PASS |
| Hexane | 2/5 | 290 | N/A | ND | PASS |
| Heptane | 20/60 | 5000 | N/A | ND | PASS |
| Benzene | 0.03/0.09 | 1 | N/A | ND | PASS |
| Toluene | 7/21 | 890 | N/A | ND | PASS |
| Total Xylenes | 50 / 160 | 2170 | N/A | ND | PASS |
| Methanol | 50 / 200 | 3000 | N/A | ND | PASS |
| Ethanol | 20/50 | 5000 | N/A | ND | PASS |
| Isopropyl Alcohol | 10/40 | 5000 | N/A | ND | PASS |
| Acetone | 20/50 | 5000 | N/A | ND | PASS |
| Ethyl ether | 20/50 | 5000 | N/A | ND | PASS |
| Ethylene Oxide | 0.3/0.8 | 1 | N/A | ND | PASS |
| Ethyl acetate | 20/60 | 5000 | N/A | ND | PASS |
| Chloroform | 0.1/0.2 | 1 | N/A | ND | PASS |
| Methylene chloride | 0.3/0.9 | 1 | N/A | ND | PASS |
| Trichloroethylene | 0.1/0.3 | 1 | N/A | ND | PASS |
| 1,2-Dichloroethane | 0.05 / 0.1 | 1 | N/A | ND | PASS |
| Acetonitrile | 2/7 | 410 | N/A | ND | PASS |

Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants



| MICROBIOLOGY TEST RESULTS (PCR) - 11/19/2021 🤗 | PASS |
|--|------|
|--|------|

HEAVY METALS TEST RESULTS - 11/18/2021 OPASS

LOD/LOQ

(µg/g)

0.02/0.1

0.02/0.05

0.04/0.1

0.002/0.01

COMPOUND

Arsenic

Lead

Cadmium

Mercury

| COMPOUND | ACTION LIMIT | RESULT | RESULT |
|--|--------------------|--------|--------|
| Shiga toxin-producing Escherichia coli | Not Detected in 1g | ND | PASS |
| Salmonella spp. | Not Detected in 1g | ND | PASS |
| Listeria monocytogenes | Not Detected in 1g | ND | PASS |

ACTION LIMIT

(µg/g)

0.42

0.27

0.5

0.4

MEASUREMENT UNCERTAINTY (µg/g)

N/A

N/A

N/A

N/A

RESULT

(µg/g)

ND

ND

ND

ND

RESULT

PASS

PASS

PASS

PASS

sc abs™

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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PCR AND PLATING

Analysis conducted by 3M[™] Petrifilm[™] and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M[™] Petrifilm[™]

Ö. Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

Microbiology Analysis Continued MICROBIOLOGY TEST RESULTS (PLATING) - 11/19/2021 OPASS

| COMPOUND | ACTION LIMIT (cfu/g) | RESULT (cfu/g) | RESULT |
|------------------------|-------------------------|-------------------|--------|
| Total Aerobic Bacteria | 100 | ND | PASS |
| Total Yeast and Mold | 10 | ND | PASS |

FOREIGN MATERIAL TEST RESULTS - 11/17/2021 O PASS

| COMPOUND | ACTION LIMIT | RESULT |
|---|-----------------|--------|
| Total Sample Area Covered by Sand, Soil, Cinders, or Dirt | >25% | PASS |
| Total Sample Area Covered by Mold | >25% | PASS |
| Total Sample Area Covered by an Imbedded Foreign Material | >25% | PASS |
| Insect Fragment Count | > 1 per 3 grams | PASS |
| Hair Count | > 1 per 3 grams | PASS |
| Mammalian Excreta Count | > 1 per 3 grams | PASS |

NOTES

1. Exclusions: QSP 1212 - Sample Certification: California Code of Regulation Title 4 Division 19

2. Exclusions: QSP 1213 - Sample Certification: California Code

of Regulation Title 4 Division 19

3. Exclusions: Sample Certification: California Code of

Regulation Title 4 Division 19

4. Exclusions: Sample Certification: California Code of

Regulation Title 4 Division 19

