

# CERTIFICATE OF ANALYSIS

Sample Name: 2mg Beef Pet Chews  
 Steep Hill ID: BK77931  
 Batch ID:  
 Sample Type: Solid Edible  
 Date Received: 12/3/2019  
 Date Reported: 12/7/2019  
 Pkg. Mass: 59 g  
 # of Servings: 13

Customer: Curapure

### Cannabinoid Results – Standard Potency

12/7/2019

Standard potency analysis utilizing High Performance Liquid Chromatography with Photo Diode Array Detector (HPLC-PDA; SOP-068) - **THC Limits: 10 mg/serv, 100 mg/pkg +/- 10%**

| Analyte | %     | mg/g | mg/pkg | mg/serv | LOD mg/g | LOQ mg/g |
|---------|-------|------|--------|---------|----------|----------|
| CBD     | 0.052 | 0.52 | 30     | 2.3     | 0.0051   | 0.0147   |
| CBDA    | ND    | ND   | ND     | ND      | 0.00168  | 0.0147   |
| CBG     | ND    | ND   | ND     | ND      | 0.0022   | 0.0147   |
| CBN     | ND    | ND   | ND     | ND      | 0.00056  | 0.0147   |
| THC     | ND    | ND   | ND     | ND      | 0.0023   | 0.0147   |
| THCA    | ND    | ND   | ND     | ND      | 0.0023   | 0.0147   |
| Total   | 0.052 | 0.52 | 30     | 2.3     |          |          |

| Total THC    | Total CBD   |
|--------------|-------------|
| Not Detected | 0.052 %     |
| Not Detected | 0.52 mg/g   |
| Not Detected | 30 mg/pkg   |
| Not Detected | 2.3 mg/serv |

### Cannabinoid Results – Extended Cannabinoids

NT

Standard potency analysis utilizing High Performance Liquid Chromatography with Photo Diode Array Detector (HPLC-PDA; SOP-068) - **THC Limits: 10 mg/serv, 100 mg/pkg +/- 10%**

| Analyte | %  | mg/g | mg/pkg | mg/serv | LOD mg/g | LOQ mg/g |
|---------|----|------|--------|---------|----------|----------|
| CBC     | NT | NT   | NT     | NT      | NT       | NT       |
| CBCA    | NT | NT   | NT     | NT      | NT       | NT       |
| CBD     | NT | NT   | NT     | NT      | NT       | NT       |
| CBDA    | NT | NT   | NT     | NT      | NT       | NT       |
| CBDV    | NT | NT   | NT     | NT      | NT       | NT       |
| CBDVA   | NT | NT   | NT     | NT      | NT       | NT       |
| CBG     | NT | NT   | NT     | NT      | NT       | NT       |
| CBGA    | NT | NT   | NT     | NT      | NT       | NT       |
| CBLA    | NT | NT   | NT     | NT      | NT       | NT       |
| CBN     | NT | NT   | NT     | NT      | NT       | NT       |
| CBNA    | NT | NT   | NT     | NT      | NT       | NT       |
| THC     | NT | NT   | NT     | NT      | NT       | NT       |
| Δ8-THC  | NT | NT   | NT     | NT      | NT       | NT       |
| THCA    | NT | NT   | NT     | NT      | NT       | NT       |
| THCV    | NT | NT   | NT     | NT      | NT       | NT       |
| THCVA   | NT | NT   | NT     | NT      | NT       | NT       |
| Total   | NT | NT   | NT     | NT      | NT       | NT       |

LOD: Limit of Detection  
 LOQ: Limit of Quantitation  
 NT: Not Tested  
 ND: Not Detected

### Moisture Results NT

Moisture content analysis utilizing Moisture Balance (MB; SOP-055)

| Analyte  | %  |
|----------|----|
| Moisture | NT |

### Water Activity Results NT

Water Activity analysis utilizing Water Activity Meter (WAM; SOP-090) - **Limit units: Aw**

| Analyte        | Aw | Limit |
|----------------|----|-------|
| Water Activity | NT | NT    |

### Foreign Material Results NT

Foreign material analysis utilizing visual inspection (SOP-057)

| Analyte           | Pass/Fail |
|-------------------|-----------|
| Visual Inspection | NT        |



Travis Ruthenburg  
 Chief Science Officer  
 Date: 12/7/2019

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**Residual Pesticides Results** NT

 Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS; SOP-070 + SOP-080) - **Limit units: µg/g**

| Analyte             | µg/g | Limit | LOD µg/g | LOQ µg/g | Analyte                 | µg/g | Limit | LOD µg/g | LOQ µg/g |
|---------------------|------|-------|----------|----------|-------------------------|------|-------|----------|----------|
| Abamectin           | NT   | NT    | NT       | NT       | Fludioxonil             | NT   | NT    | NT       | NT       |
| Acephate            | NT   | NT    | NT       | NT       | Hexythiazox             | NT   | NT    | NT       | NT       |
| Acequinocyl         | NT   | NT    | NT       | NT       | Imazalil                | NT   | NT    | NT       | NT       |
| Acetamiprid         | NT   | NT    | NT       | NT       | Imidacloprid            | NT   | NT    | NT       | NT       |
| Aldicarb            | NT   | NT    | NT       | NT       | Kresoxim-methyl         | NT   | NT    | NT       | NT       |
| Azoxystrobin        | NT   | NT    | NT       | NT       | Malathion               | NT   | NT    | NT       | NT       |
| Bifenazate          | NT   | NT    | NT       | NT       | Metaxyl                 | NT   | NT    | NT       | NT       |
| Bifenthrin          | NT   | NT    | NT       | NT       | Methiocarb              | NT   | NT    | NT       | NT       |
| Boscalid            | NT   | NT    | NT       | NT       | Methomyl                | NT   | NT    | NT       | NT       |
| Captan              | NT   | NT    | NT       | NT       | Methyl Parathion        | NT   | NT    | NT       | NT       |
| Carbaryl            | NT   | NT    | NT       | NT       | Mevinphos               | NT   | NT    | NT       | NT       |
| Carbofuran          | NT   | NT    | NT       | NT       | Myclobutanil            | NT   | NT    | NT       | NT       |
| Chlorantraniliprole | NT   | NT    | NT       | NT       | Naled                   | NT   | NT    | NT       | NT       |
| Chlordane           | NT   | NT    | NT       | NT       | Oxamyl                  | NT   | NT    | NT       | NT       |
| Chlorfenapyr        | NT   | NT    | NT       | NT       | Pacllobutrazol          | NT   | NT    | NT       | NT       |
| Chlorpyrifos        | NT   | NT    | NT       | NT       | Pentachloronitrobenzene | NT   | NT    | NT       | NT       |
| Clofentezine        | NT   | NT    | NT       | NT       | Permethrin              | NT   | NT    | NT       | NT       |
| Coumaphos           | NT   | NT    | NT       | NT       | Phosmet                 | NT   | NT    | NT       | NT       |
| Cyfluthrin          | NT   | NT    | NT       | NT       | Piperonyl Butoxide      | NT   | NT    | NT       | NT       |
| Cypermethrin        | NT   | NT    | NT       | NT       | Prallethrin             | NT   | NT    | NT       | NT       |
| Daminozide          | NT   | NT    | NT       | NT       | Propiconazole           | NT   | NT    | NT       | NT       |
| Diazinon            | NT   | NT    | NT       | NT       | Propoxur                | NT   | NT    | NT       | NT       |
| Dichlorvos          | NT   | NT    | NT       | NT       | Pyrethrins              | NT   | NT    | NT       | NT       |
| Dimethoate          | NT   | NT    | NT       | NT       | Pyridaben               | NT   | NT    | NT       | NT       |
| Dimethomorph        | NT   | NT    | NT       | NT       | Spinetoram              | NT   | NT    | NT       | NT       |
| Ethoprophos         | NT   | NT    | NT       | NT       | Spinosad                | NT   | NT    | NT       | NT       |
| Etofenprox          | NT   | NT    | NT       | NT       | Spiromesifen            | NT   | NT    | NT       | NT       |
| Etoxazole           | NT   | NT    | NT       | NT       | Spirotetramat           | NT   | NT    | NT       | NT       |
| Fenhexamid          | NT   | NT    | NT       | NT       | Spiroxamine             | NT   | NT    | NT       | NT       |
| Fenoxycarb          | NT   | NT    | NT       | NT       | Tebuconazole            | NT   | NT    | NT       | NT       |
| Fenpyroximate       | NT   | NT    | NT       | NT       | Thiacloprid             | NT   | NT    | NT       | NT       |
| Fipronil            | NT   | NT    | NT       | NT       | Thiamethoxam            | NT   | NT    | NT       | NT       |
| Flonicamid          | NT   | NT    | NT       | NT       | Trifloxystrobin         | NT   | NT    | NT       | NT       |

**Residual Solvents Results** NT

 Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010) - **Limit units: µg/g**

| Analyte            | µg/g | Limit | LOD µg/g | LOQ µg/g | Analyte            | µg/g | Limit | LOD µg/g | LOQ µg/g |
|--------------------|------|-------|----------|----------|--------------------|------|-------|----------|----------|
| 1,2 Dichloroethane | NT   | NT    | NT       | NT       | n-Heptane          | NT   | NT    | NT       | NT       |
| Acetone            | NT   | NT    | NT       | NT       | n-Hexane           | NT   | NT    | NT       | NT       |
| Acetonitrile       | NT   | NT    | NT       | NT       | Isopropanol        | NT   | NT    | NT       | NT       |
| Benzene            | NT   | NT    | NT       | NT       | Methanol           | NT   | NT    | NT       | NT       |
| n-Butane           | NT   | NT    | NT       | NT       | Methylene Chloride | NT   | NT    | NT       | NT       |
| Chloroform         | NT   | NT    | NT       | NT       | n-Pentane          | NT   | NT    | NT       | NT       |
| Ethanol            | NT   | NT    | NT       | NT       | Propane            | NT   | NT    | NT       | NT       |
| Ethyl Acetate      | NT   | NT    | NT       | NT       | Toluene            | NT   | NT    | NT       | NT       |
| Ethyl Ether        | NT   | NT    | NT       | NT       | Total Xylenes      | NT   | NT    | NT       | NT       |
| Ethylene Oxide     | NT   | NT    | NT       | NT       | Trichloroethylene  | NT   | NT    | NT       | NT       |



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**Microbial Impurities Results** NT

Microbiological screening utilizing Pathogen Dx. (PDX; SOP-076)

| Analyte               | Result | Limit | LOQ |
|-----------------------|--------|-------|-----|
| Aspergillus flavus    | NT     | NT    | NT  |
| Aspergillus fumigatus | NT     | NT    | NT  |
| Aspergillus niger     | NT     | NT    | NT  |
| Aspergillus terreus   | NT     | NT    | NT  |
| E. coli (STEC)        | NT     | NT    | NT  |
| Salmonella            | NT     | NT    | NT  |

**Mycotoxin Results** NT

 Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070) - **Limit units: µg/kg**

| Analyte          | µg/kg | Limit | LOD µg/kg | LOQ µg/kg |
|------------------|-------|-------|-----------|-----------|
| Aflatoxin B1     | NT    | NT    | NT        | NT        |
| Aflatoxin B2     | NT    | NT    | NT        | NT        |
| Aflatoxin G1     | NT    | NT    | NT        | NT        |
| Aflatoxin G2     | NT    | NT    | NT        | NT        |
| Ochratoxin A     | NT    | NT    | NT        | NT        |
| Total Aflatoxins | NT    | NT    | NT        | NT        |

**Heavy Metals Results** NT

 Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072) - **Limit units: µg/g**

| Analyte | µg/g | Limit | LOD µg/g | LOQ µg/g |
|---------|------|-------|----------|----------|
| Arsenic | NT   | NT    | NT       | NT       |
| Cadmium | NT   | NT    | NT       | NT       |
| Lead    | NT   | NT    | NT       | NT       |
| Mercury | NT   | NT    | NT       | NT       |

**Terpenoid Results - Standard Terpenes** NT

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069)

| Analyte             | %  | mg/g | LOD mg/g | LOQ mg/g |
|---------------------|----|------|----------|----------|
| Caryophyllene Oxide | NT | NT   | NT       | NT       |
| β-Caryophyllene     | NT | NT   | NT       | NT       |
| Citronellol         | NT | NT   | NT       | NT       |
| α-Humulene          | NT | NT   | NT       | NT       |
| Limonene            | NT | NT   | NT       | NT       |
| Linalool            | NT | NT   | NT       | NT       |
| β-Myrcene           | NT | NT   | NT       | NT       |
| Phytol 1            | NT | NT   | NT       | NT       |
| Phytol 2            | NT | NT   | NT       | NT       |
| α-Pinene            | NT | NT   | NT       | NT       |
| β-Pinene            | NT | NT   | NT       | NT       |
| Terpinolene         | NT | NT   | NT       | NT       |
| Total               | NT | NT   | NT       | NT       |

**Terpenoid Results - Extended Terpenes** NT

Extended terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069)

| Analyte             | %  | mg/g | LOD mg/g | LOQ mg/g | Analyte          | %  | mg/g | LOD mg/g | LOQ mg/g |
|---------------------|----|------|----------|----------|------------------|----|------|----------|----------|
| α-Bisabolol         | NT | NT   | NT       | NT       | Linalool         | NT | NT   | NT       | NT       |
| endo-Borneol        | NT | NT   | NT       | NT       | Menthol          | NT | NT   | NT       | NT       |
| Camphene            | NT | NT   | NT       | NT       | β-Myrcene        | NT | NT   | NT       | NT       |
| Camphor             | NT | NT   | NT       | NT       | Nerol            | NT | NT   | NT       | NT       |
| 3-Carene            | NT | NT   | NT       | NT       | cis-Nerolidol    | NT | NT   | NT       | NT       |
| Caryophyllene Oxide | NT | NT   | NT       | NT       | trans-Nerolidol  | NT | NT   | NT       | NT       |
| β-Caryophyllene     | NT | NT   | NT       | NT       | cis-β-Ocimene    | NT | NT   | NT       | NT       |
| α-Cedrene           | NT | NT   | NT       | NT       | trans-β-Ocimene  | NT | NT   | NT       | NT       |
| Cedrol              | NT | NT   | NT       | NT       | α-Phellandrene   | NT | NT   | NT       | NT       |
| Citronellol         | NT | NT   | NT       | NT       | Phytol 1         | NT | NT   | NT       | NT       |
| Eucalyptol          | NT | NT   | NT       | NT       | Phytol 2         | NT | NT   | NT       | NT       |
| α-Farnesene         | NT | NT   | NT       | NT       | α-Pinene         | NT | NT   | NT       | NT       |
| β-Farnesene         | NT | NT   | NT       | NT       | β-Pinene         | NT | NT   | NT       | NT       |
| Fenchol             | NT | NT   | NT       | NT       | Pulegone         | NT | NT   | NT       | NT       |
| Fenchone            | NT | NT   | NT       | NT       | Sabinene         | NT | NT   | NT       | NT       |
| Geraniol            | NT | NT   | NT       | NT       | Sabinene Hydrate | NT | NT   | NT       | NT       |
| Geranyl Acetate     | NT | NT   | NT       | NT       | α-Terpinene      | NT | NT   | NT       | NT       |
| Guaiol              | NT | NT   | NT       | NT       | γ-Terpinene      | NT | NT   | NT       | NT       |
| α-Humulene          | NT | NT   | NT       | NT       | α-Terpineol      | NT | NT   | NT       | NT       |
| Isoborneol          | NT | NT   | NT       | NT       | Terpinolene      | NT | NT   | NT       | NT       |
| Isopulegol          | NT | NT   | NT       | NT       | Valencene        | NT | NT   | NT       | NT       |
| Limonene            | NT | NT   | NT       | NT       | Total            | NT | NT   | NT       | NT       |

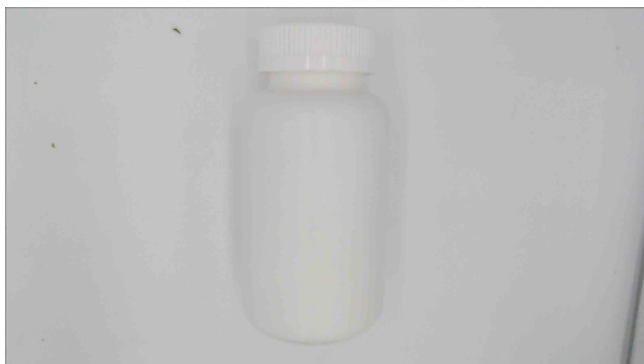


 Travis Ruthenburg  
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 Date: 12/7/2019

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## Photos



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Page 4 of 4