

ICAL ID: 20220429-143 Sample: CA220506-011-074 Penguin Gummy Bears 10mg CBD + 5mg Melatonin Strain: Penguin Gummy Bears 10mg CBD + 5mg Melatonin Category: Ingestible

Penguin Lic.# San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

1 of 3

Batch#: PENGUIN-CBD 042922 Batch Size Collected: Total Batch Size: Collected: 05/10/2022; Received: 05/10/2022 Completed: 05/10/2022

| Mois<br>N<br>Water A<br><b>0.63</b> 0   | <b>T</b><br>Activity  | ND<br>mg/serving  | CBD<br><b>361.76 mg/unit</b><br>12.06 mg/serving  | Total Cannabinoids<br><b>362.51 mg/unit</b><br>12.08 mg/serving | Total Terpenes<br>NT |
|---|---|---|---|---|----------------------|
| Summary<br>Batch<br>Cannabinoids<br>Water Activity<br>Residual Solvents<br>Microbials<br>Mycotoxins<br>Heavy Metals<br>Foreign Matter<br>Pesticides | SOP Used<br>POT-PREP-002<br>WA-PREP-001<br>RS-PREP-001<br>MICRO-PREP-001<br>PESTMYCO-LC-PREP-001<br>FM-PREP-001<br>FM-PREP-001<br>PESTMYCO-LC-PREP-001/<br>PEST-GC-PREP-001 | Date Tested<br>05/03/2022<br>05/09/2022<br>05/09/2022<br>05/09/2022<br>05/09/2022<br>05/06/2022<br>05/06/2022 | Pass<br>Complete<br>Pass - 0.636 aw<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass | Penguin<br>Burny Barr<br>Surny Barr<br>Surny Barr               | Scan to see results  |

## **Cannabinoid Profile**

| Cannab  | oinoid Profi | le         |       |      |         |           | 1 Unit = package | e, 107.01 g. 30 | ) servin | g(s) per | package. |
|---------|--------------|------------|-------|------|---------|-----------|------------------|-----------------|----------|----------|----------|
| Analyte | LOQ (mg/g)   | LOD (mg/g) | %     | mg/g | mg/unit | Analyte   | LOQ (mg/g)       | LOD (mg/g)      | %        | mg/g     | mg/unit  |
| THCa    | 0.0128       | 0.0043     | ND    | ND   | ND      | CBDV      | 0.0046           | 0.0004          | 0.001    | 0.01     | 0.75     |
| ∆9-THC  | 0.0046       | 0.0010     | ND    | ND   | ND      | CBN       | 0.0046           | 0.0005          | ND       | ND       | ND       |
| ∆8-THC  | 0.0046       | 0.0014     | ND    | ND   | ND      | CBGa      | 0.0046           | 0.0015          | ND       | ND       | ND       |
| THCV    | 0.0046       | 0.0006     | ND    | ND   | ND      | CBG       | 0.0046           | 0.0005          | ND       | ND       | ND       |
| CBDa    | 0.0049       | 0.0016     | ND    | ND   | ND      | CBC       | 0.0076           | 0.0025          | ND       | ND       | ND       |
| CBD     | 0.0046       | 0.0008     | 0.338 | 3.38 | 361.76  | Total THC |                  |                 | ND       | ND       | ND       |
|         |              |            |       |      |         | Total CBD |                  |                 | 0.34     | 3.38     | 361.76   |
|         |              |            |       |      |         | Total     |                  |                 | 0.34     | 3.39     | 362.51   |

Total THC=THCa\* 0.877 + d9-THC; Total CBD = CBDa\* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids: UHPLC-DAD(POT-INST-005), Moisture: Moisture Analyzer (MOISTURE-001), Water Activity: Water Activity Meter (WA-INST-002), Foreign Material: Microscope (FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

| Terpene Profil | е          |              |      |         |            |            |        |
|----------------|------------|--------------|------|---------|------------|------------|--------|
| Analyte        | LOQ (mg/g) | LOD (mg/g) % | mg/g | Analyte | LOQ (mg/g) | LOD (mg/g) | % mg/g |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Josh Swider Lab Director, Managing Partner 05/10/2022



ICAL ID: 20220429-143 Sample: CA220506-011-074 Penguin Gummy Bears 10mg CBD + 5mg Melatonin Strain: Penguin Gummy Bears 10mg CBD + 5mg Melatonin Category: Ingestible

Penguin Lic.# San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

2 of 3

Batch#: PENGUIN-CBD 042922 Batch Size Collected: Total Batch Size: Collected: 05/10/2022; Received: 05/10/2022 Completed: 05/10/2022

### **Residual Solvent Analysis**

| Category 1          |            | LOQ           | LOD   | Limit     | Status | Category 2    |            | LOQ            | LOD Limit               | Status | Category 2  |            | LOQ             | LOD Limit             | Status |
|---------------------|------------|---------------|-------|-----------|--------|---------------|------------|----------------|-------------------------|--------|-------------|------------|-----------------|-----------------------|--------|
| 1,2-Dichloro-Ethane | µg/g<br>ND | µg/g<br>0.264 |       | µg/g<br>1 | Pass   | Acetone       | µg/g<br>ND | µg/g<br>51.246 | μg/g μg/g<br>0.716 5000 | Pass   | n-Hexane    | µg/g<br>ND | µg/g<br>0.281 0 | μg/g μg/g<br>.027 290 | Pass   |
| Benzene             | ND         | 0.052         | 0.017 | 1         | Pass   | Acetonitrile  | ND         | 0.42           | 0.14 410                | Pass   | Isopropanol | ND         | 2.86 0          | .614 5000             | Pass   |
| Chloroform          | ND         | 0.076         | 0.025 | 1         | Pass   | Butane        | ND         | 4.849          | 0.748 5000              | Pass   | Methanol    | ND         | 2.602 0         | .867 3000             | Pass   |
| Ethylene Oxide      | ND         | 0.579         | 0.179 | 1         | Pass   | Ethanol       | ND         | 7.575          | 2.525 5000              | Pass   | Pentane     | ND         | 5.075 1         | .692 5000             | Pass   |
| Methylene-Chloride  | ND         | 0.729         | 0.08  | 1         | Pass   | Ethyl-Acetate | ND         | 2.288          | 0.175 5000              | Pass   | Propane     | ND         | 9.709 3         | .236 5000             | Pass   |
| Trichloroethene     | ND         | 0.145         | 0.028 | 1         | Pass   | Ethyl-Ether   | ND         | 2.869          | 0.389 5000              | Pass   | Toluene     | ND         | 0.864 0         | .067 890              | Pass   |
|                     |            |               |       |           |        | Heptane       | ND         | 2.859          | 0.496 5000              | Pass   | Xylenes     | ND         | 2.572 0         | .326 2170             | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

### **Heavy Metal Screening**

|         |  | LOQ   | LOD   | Limit | Status |
|---------|--|-------|-------|-------|--------|
|         | μg/g   | µg/g  | µg/g  | µg/g  |        |
| Arsenic | ND   | 0.009 | 0.003 | 1.5   | Pass   |
| Cadmium | <loq< th=""><th>0.002</th><th>0.001</th><th>0.5</th><th>Pass</th></loq<> | 0.002 | 0.001 | 0.5   | Pass   |
| Lead    | <loq< th=""><th>0.004</th><th>0.001</th><th>0.5</th><th>Pass</th></loq<> | 0.004 | 0.001 | 0.5   | Pass   |
| Mercury | ND   | 0.014 | 0.005 | 3     | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

### **Microbiological Screening**

|                       | Limit | Result       | Status |
|-----------------------|-------|--------------|--------|
|                       | CFU/g | CFU/g        |        |
| Aspergillus flavus    |       | NR           | NT     |
| Aspergillus fumigatus |       | NR           | NT     |
| Aspergillus niger     |       | NR           | NT     |
| Aspergillus terreus   |       | NR           | NT     |
| STEC                  |       | Not Detected | Pass   |
| Salmonella SPP        |       | Not Detected | Pass   |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.

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Infinite Chemical Analysis Labs

Josh Swider Lab Director, Managing Partner

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05/10/2022

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ICAL ID: 20220429-143 Sample: CA220506-011-074 Penguin Gummy Bears 10mg CBD + 5mg Melatonin Strain: Penguin Gummy Bears 10mg CBD + 5mg Melatonin Category: Ingestible Penguin Lic. # San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

3 of 3 Batch#: PENGUIN-CBD 042922 Batch Size Collected: Total Batch Size: Collected: 05/10/2022; Received: 05/10/2022 Completed: 05/10/2022

### **Chemical Residue Screening**

| Category 1       |      | LOQ   | LOD   | Status |
|------------------|------|-------|-------|--------|
|                  | µg/g | µg/g  | µg/g  |        |
| Aldicarb         | ND   | 0.065 | 0.022 | Pass   |
| Carbofuran       | ND   | 0.030 | 0.009 | Pass   |
| Chlordane        | ND   | 0.075 | 0.025 | Pass   |
| Chlorfenapyr     | ND   | 0.075 | 0.025 | Pass   |
| Chlorpyrifos     | ND   | 0.053 | 0.018 | Pass   |
| Coumaphos        | ND   | 0.056 | 0.018 | Pass   |
| Daminozide       | ND   | 0.079 | 0.026 | Pass   |
| Dichlorvos       | ND   | 0.067 | 0.022 | Pass   |
| Dimethoate       | ND   | 0.036 | 0.012 | Pass   |
| Ethoprophos      | ND   | 0.053 | 0.017 | Pass   |
| Etofenprox       | ND   | 0.030 | 0.008 | Pass   |
| Fenoxycarb       | ND   | 0.043 | 0.014 | Pass   |
| Fipronil         | ND   | 0.045 | 0.015 | Pass   |
| Imazalil         | ND   | 0.047 | 0.016 | Pass   |
| Methiocarb       | ND   | 0.047 | 0.016 | Pass   |
| Mevinphos        | ND   | 0.042 | 0.014 | Pass   |
| Paclobutrazol    | ND   | 0.040 | 0.013 | Pass   |
| Parathion Methyl | ND   | 0.024 | 0.008 | Pass   |
| Propoxur         | ND   | 0.047 | 0.016 | Pass   |
| Spiroxamine      | ND   | 0.032 | 0.011 | Pass   |
| Thiacloprid      | ND   | 0.042 | 0.014 | Pass   |

| Mycotoxins       |       | LOQ   | LOD   | Limit | Status |
|------------------|-------|-------|-------|-------|--------|
|                  | µg/kg | µg/kg | µg/kg | µg/kg |        |
| B1               | NĎ    | 7.88  | 2.6   |       | Tested |
| B2               | ND    | 6.18  | 2.04  |       | Tested |
| G1               | ND    | 8.99  | 2.97  |       | Tested |
| G2               | ND    | 5.72  | 1.89  |       | Tested |
| Ochratoxin A     | ND    | 11.72 | 3.87  | 20    | Pass   |
| Total Aflatoxins | ND    |       |       | 20    | Pass   |

| Category 2          |      | LOQ   | LOD   | Limit | Status | Category 2              |      | LOQ   | LOD   | Limit | Status |
|---------------------|------|-------|-------|-------|--------|-------------------------|------|-------|-------|-------|--------|
|                     | µg/g | µg/g  | µg/g  | µg/g  |        |                         | µg/g | µg/g  | µg/g  | µg/g  |        |
| Abamectin           | ND   | 0.030 | 0.010 | 0.3   | Pass   | Kresoxim Methyl         | ND   | 0.038 | 0.012 | 1     | Pass   |
| Acephate            | ND   | 0.050 | 0.016 | 5     | Pass   | Malathion               | ND   | 0.035 | 0.012 | 5     | Pass   |
| Acequinocyl         | ND   | 0.059 | 0.019 | 4     | Pass   | Metalaxyl               | ND   | 0.031 | 0.010 | 15    | Pass   |
| Acetamiprid         | ND   | 0.044 | 0.015 | 5     | Pass   | Methomyl                | ND   | 0.048 | 0.016 | 0.1   | Pass   |
| Azoxystrobin        | ND   | 0.029 | 0.010 | 40    | Pass   | Myclobutanil            | ND   | 0.055 | 0.018 | 9     | Pass   |
| Bifenazate          | ND   | 0.035 | 0.012 | 5     | Pass   | Naled                   | ND   | 0.051 | 0.017 | 0.5   | Pass   |
| Bifenthrin          | ND   | 0.040 | 0.013 | 0.5   | Pass   | Oxamyl                  | ND   | 0.046 | 0.015 | 0.3   | Pass   |
| Boscalid            | ND   | 0.060 | 0.020 | 10    | Pass   | Pentachloronitrobenzene | ND   | 0.054 | 0.018 | 0.2   | Pass   |
| Captan              | ND   | 0.358 | 0.120 | 5     | Pass   | Permethrin              | ND   | 0.030 | 0.008 | 20    | Pass   |
| Carbaryl            | ND   | 0.049 | 0.016 | 0.5   | Pass   | Phosmet                 | ND   | 0.038 | 0.012 | 0.2   | Pass   |
| Chlorantraniliprole | ND   | 0.063 | 0.021 | 40    | Pass   | Piperonyl Butoxide      | ND   | 0.030 | 0.008 | 8     | Pass   |
| Clofentezine        | ND   | 0.039 | 0.013 | 0.5   | Pass   | Prallethrin             | ND   | 0.068 | 0.023 | 0.4   | Pass   |
| Cyfluthrin          | ND   | 0.056 | 0.019 | 1     | Pass   | Propiconazole           | ND   | 0.059 | 0.019 | 20    | Pass   |
| Cypermethrin        | ND   | 0.044 | 0.015 | 1     | Pass   | Pyrethrins              | ND   | 0.030 | 0.004 | 1     | Pass   |
| Diazinon            | ND   | 0.030 | 0.006 | 0.2   | Pass   | Pyridaben               | ND   | 0.035 | 0.012 | 3     | Pass   |
| Dimethomorph        | ND   | 0.042 | 0.014 | 20    | Pass   | Spinetoram              | ND   | 0.030 | 0.006 | 3     | Pass   |
| Etoxazole           | ND   | 0.030 | 0.008 | 1.5   | Pass   | Spinosad                | ND   | 0.030 | 0.004 | 3     | Pass   |
| Fenhexamid          | ND   | 0.039 | 0.013 | 10    | Pass   | Spiromesifen            | ND   | 0.042 | 0.014 | 12    | Pass   |
| Fenpyroximate       | ND   | 0.030 | 0.010 | 2     | Pass   | Spirotetramat           | ND   | 0.041 | 0.013 | 13    | Pass   |
| Flonicamid          | ND   | 0.081 | 0.027 | 2     | Pass   | Tebuconazole            | ND   | 0.044 | 0.014 | 2     | Pass   |
| Fludioxonil         | ND   | 0.046 | 0.015 | 30    | Pass   | Thiamethoxam            | ND   | 0.055 | 0.018 | 4.5   | Pass   |
| Hexythiazox         | ND   | 0.078 | 0.026 | 2     | Pass   | Trifloxystrobin         | ND   | 0.031 | 0.010 | 30    | Pass   |
| Imidacloprid        | ND   | 0.071 | 0.023 | 3     | Pass   |                         |      |       |       |       |        |

#### Other Analyte(s): Melatonin: 142.32 mg/package

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Josh Swider Lab Director, Managing Partner 05/10/2022



ICAL ID: 20220503-064 Sample: CA220503-014-066 Penguin Gummy Bears - CBD Strain: Penguin Gummy Bears - CBD Category: Ingestible

Penguin Lic.# San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

1 of 3

Batch#: PGB10CBD Batch Size Collected: Total Batch Size: Collected: 05/05/2022; Received: 05/05/2022 Completed: 05/05/2022

| Mois<br><b>N</b><br>Water A | Т                     | 19-тнс<br><b>ND</b> | свD<br><b>374.57 mg/unit</b> | Total Cannabinoids<br>376.20 mg/unit | Total Terpenes<br><b>NT</b> |
|-----------------------------|-----------------------|---------------------|------------------------------|--------------------------------------|-----------------------------|
| 0.71                        | 5 aw 0.00             | mg/serving          | 12.49 mg/serving             | 12.54 mg/serving                     |                             |
| Summary                     | SOP Used              | Date Tested         |                              |                                      |                             |
| Batch                       |                       |                     | Pass                         |                                      |                             |
| Cannabinoids                | POT-PREP-002          | 05/04/2022          | Complete                     |                                      |                             |
| Vater Activity              | WA-PREP-001           | 05/05/2022          | Pass - 0.715 aw              |                                      |                             |
| esidual Solvents            | RS-PREP-001           | 05/04/2022          | Pass                         |                                      | 国政法統国                       |
| ∕licrobials                 | MICRO-PREP-001        | 05/04/2022          | Pass                         |                                      |                             |
| Aycotoxins                  | PESTMYCO-LC-PREP-001  | 05/04/2022          | Pass                         |                                      |                             |
| leavy Metals                | HM-PREP-001           | 05/04/2022          | Pass                         | Penguin<br>Gummy Bears               |                             |
| oreign Matter               | FM-PREP-001           | 05/03/2022          | Pass                         | New States Tar                       |                             |
| Pesticides                  | PESTMYCO-LC-PREP-001/ | 05/04/2022          | Pass                         |                                      |                             |
|                             | PEST-GC-PREP-001      |                     |                              | Hereit Supplement<br>30 Generation   | Scan to see result          |

### **Cannabinoid Profile**

| Cannab  | oinoid Profi | le         |       |      |         |           | 1 Unit = package | e, 108.76 g. 30 | ) servin | g(s) per | package. |
|---------|--------------|------------|-------|------|---------|-----------|------------------|-----------------|----------|----------|----------|
| Analyte | LOQ (mg/g)   | LOD (mg/g) | %     | mg/g | mg/unit | Analyte   | LOQ (mg/g)       | LOD (mg/g)      | %        | mg/g     | mg/unit  |
| THCa    | 0.0128       | 0.0043     | ND    | ND   | ND      | CBDV      | 0.0046           | 0.0004          | 0.002    | 0.02     | 1.63     |
| ∆9-THC  | 0.0046       | 0.0010     | ND    | ND   | ND      | CBN       | 0.0046           | 0.0005          | ND       | ND       | ND       |
| ∆8-THC  | 0.0046       | 0.0014     | ND    | ND   | ND      | CBGa      | 0.0046           | 0.0015          | ND       | ND       | ND       |
| THCV    | 0.0046       | 0.0006     | ND    | ND   | ND      | CBG       | 0.0046           | 0.0005          | ND       | ND       | ND       |
| CBDa    | 0.0049       | 0.0016     | ND    | ND   | ND      | CBC       | 0.0076           | 0.0025          | ND       | ND       | ND       |
| CBD     | 0.0046       | 0.0008     | 0.344 | 3.44 | 374.57  | Total THC |                  |                 | ND       | ND       | ND       |
|         |              |            |       |      |         | Total CBD |                  |                 | 0.34     | 3.44     | 374.57   |
|         |              |            |       |      |         | Total     |                  |                 | 0.35     | 3.46     | 376.20   |

Total THC=THCa\* 0.877 + d9-THC; Total CBD = CBDa\* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids: UHPLC-DAD(POT-INST-005), Moisture: Moisture Analyzer (MOISTURE-001), Water Activity: Water Activity Meter (WA-INST-002), Foreign Material: Microscope (FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

| Terpene Profil | e          |              |      |         |            |            |        |
|----------------|------------|--------------|------|---------|------------|------------|--------|
| Analyte        | LOQ (mg/g) | LOD (mg/g) % | mg/g | Analyte | LOQ (mg/g) | LOD (mg/g) | % mg/g |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Josh Swider Lab Director, Managing Partner 05/05/2022



ICAL ID: 20220503-064 Sample: CA220503-014-066 Penguin Gummy Bears - CBD Strain: Penguin Gummy Bears - CBD Category: Ingestible

Penguin Lic. # San Diego San Diego, CA 92121

Lic. #

2 of 3

Batch#: PGB10CBD Batch Size Collected: Total Batch Size: Collected: 05/05/2022; Received: 05/05/2022 Completed: 05/05/2022

### **Residual Solvent Analysis**

| Category 1          |      | LOQ           | LOD   | Limit | Status | Category 2    |      | LOQ      | LOD Limit               | Status | Category 2  |      | LOQ           | LOD   | Limit       | Status |
|---------------------|------|---------------|-------|-------|--------|---------------|------|----------|-------------------------|--------|-------------|------|---------------|-------|-------------|--------|
| 1.2-Dichloro-Ethane | µg/g | µg/g<br>0.264 |       | µg/g  | Pass   | Acetone       | µg/g | µg/g     | μg/g μg/g<br>0.716 5000 | Pass   | n-Hexane    | µg/g | µg/g<br>0.281 |       | µg/g<br>290 | Pass   |
| Benzene             |      | 0.264         |       |       |        |               | ND   |          |                         | Pass   | Isopropanol |      | 2.86          | 01027 | 270         | Pass   |
| Chloroform          |      | 0.076         |       | _     | Pass   | Butane        | ND   | 4.849    | 0.748 5000              | Pass   | Methanol    |      | 2.602         | 01007 | 0000        | Pass   |
| Ethylene Oxide      |      | 0.579         |       | _     |        | Ethanol       | ND   | , 10 , 0 | 2.525 5000              | Pass   | Pentane     |      | 5.075         |       |             | Pass   |
| Methylene-Chloride  |      | 0.729         |       | _     |        | Ethyl-Acetate | ND   |          | 0.175 5000              |        | Propane     |      | 9.709         |       | 5000        | Pass   |
| Trichloroethene     | ND   | 0.145         | 0.028 | 1     | Pass   | Ethyl-Ether   |      |          | 0.389 5000              | Pass   | Toluene     |      | 0.864         | 01007 | 890         | Pass   |
|                     |      |               |       |       |        | Heptane       | ND   | 2.859    | 0.496 5000              | Pass   | Xylenes     | ND   | 2.572         | 0.326 | 2170        | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

### **Heavy Metal Screening**

|         |       | LOQ   | LOD   | Limit | Status |
|---------|-------|-------|-------|-------|--------|
|         | µg/g  | µg/g  | µg/g  | µg/g  |        |
| Arsenic | ND    | 0.009 | 0.003 | 1.5   | Pass   |
| Cadmium | ND    | 0.002 | 0.001 | 0.5   | Pass   |
| Lead    | 0.005 | 0.004 | 0.001 | 0.5   | Pass   |
| Mercury | ND    | 0.014 | 0.005 | 3     | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

### **Microbiological Screening**

|                       | Limit | Result       | Status |
|-----------------------|-------|--------------|--------|
|                       | CFU/g | CFU/g        |        |
| Aspergillus flavus    |       | NR           | NT     |
| Aspergillus fumigatus |       | NR           | NT     |
| Aspergillus niger     |       | NR           | NT     |
| Aspergillus terreus   |       | NR           | NT     |
| STEC                  |       | Not Detected | Pass   |
| Salmonella SPP        |       | Not Detected | Pass   |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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Josh Swider Lab Director, Managing Partner 05/05/2022



ICAL ID: 20220503-064 Sample: CA220503-014-066 Penguin Gummy Bears - CBD Strain: Penguin Gummy Bears - CBD Category: Ingestible Penguin Lic. # San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

3 of 3 Batch#: PGB10CBD Batch Size Collected: Total Batch Size: Collected: 05/05/2022; Received: 05/05/2022 Completed: 05/05/2022

#### **Chemical Residue Screening**

| Category 1       |      | LOQ   | LOD   | Status |
|------------------|------|-------|-------|--------|
|                  | µg/g | µg/g  | µg/g  |        |
| Aldicarb         | ND   | 0.065 | 0.022 | Pass   |
| Carbofuran       | ND   | 0.030 | 0.009 | Pass   |
| Chlordane        | ND   | 0.075 | 0.025 | Pass   |
| Chlorfenapyr     | ND   | 0.075 | 0.025 | Pass   |
| Chlorpyrifos     | ND   | 0.053 | 0.018 | Pass   |
| Coumaphos        | ND   | 0.056 | 0.018 | Pass   |
| Daminozide       | ND   | 0.079 | 0.026 | Pass   |
| Dichlorvos       | ND   | 0.067 | 0.022 | Pass   |
| Dimethoate       | ND   | 0.036 | 0.012 | Pass   |
| Ethoprophos      | ND   | 0.053 | 0.017 | Pass   |
| Etofenprox       | ND   | 0.030 | 0.008 | Pass   |
| Fenoxycarb       | ND   | 0.043 | 0.014 | Pass   |
| Fipronil         | ND   | 0.045 | 0.015 | Pass   |
| Imazalil         | ND   | 0.047 | 0.016 | Pass   |
| Methiocarb       | ND   | 0.047 | 0.016 | Pass   |
| Mevinphos        | ND   | 0.042 | 0.014 | Pass   |
| Paclobutrazol    | ND   | 0.040 | 0.013 | Pass   |
| Parathion Methyl | ND   | 0.024 | 0.008 | Pass   |
| Propoxur         | ND   | 0.047 | 0.016 | Pass   |
| Spiroxamine      | ND   | 0.032 | 0.011 | Pass   |
| Thiacloprid      | ND   | 0.042 | 0.014 | Pass   |

|       | LOQ                        | LOD  | Limit  | Status  |
|-------|----------------------------|--|--|---|
| µg/kg | µg/kg                      | µg/kg  | µg/kg  |   |
| ND    | 7.88                       | 2.6  |  | Tested  |
| ND    | 6.18                       | 2.04   |  | Tested  |
| ND    | 8.99                       | 2.97   |  | Tested  |
| ND    | 5.72                       | 1.89   |  | Tested  |
| ND    | 11.72                      | 3.87   | 20   | Pass  |
| ND    |                            |  | 20   | Pass  |
|       | ND<br>ND<br>ND<br>ND<br>ND | ND 7.88<br>ND 6.18<br>ND 8.99<br>ND 5.72<br>ND 11.72 | ND 7.88 2.6   ND 6.18 2.04   ND 8.99 2.97   ND 5.72 1.89   ND 11.72 3.87 | μg/kg μg/kg μg/kg μg/kg μg/kg   ND 7.88 2.6   ND 6.18 2.04   ND 8.99 2.97   ND 5.72 1.89   ND 11.72 3.87 20 |

| Category 2          |      | LOQ   | LOD   | Limit | Status | Category 2              |      | LOQ   | LOD   | Limit | Status |
|---------------------|------|-------|-------|-------|--------|-------------------------|------|-------|-------|-------|--------|
|                     | µg/g | µg/g  | µg/g  | µg/g  |        |                         | µg/g | µg/g  | µg/g  | µg/g  |        |
| Abamectin           | ND   | 0.030 | 0.010 | 0.3   | Pass   | Kresoxim Methyl         | ND   | 0.038 | 0.012 | 1     | Pass   |
| Acephate            | ND   | 0.050 | 0.016 | 5     | Pass   | Malathion               | ND   | 0.035 | 0.012 | 5     | Pass   |
| Acequinocyl         | ND   | 0.059 | 0.019 | 4     | Pass   | Metalaxyl               | ND   | 0.031 | 0.010 | 15    | Pass   |
| Acetamiprid         | ND   | 0.044 | 0.015 | 5     | Pass   | Methomyl                | ND   | 0.048 | 0.016 | 0.1   | Pass   |
| Azoxystrobin        | ND   | 0.029 | 0.010 | 40    | Pass   | Myclobutanil            | ND   | 0.055 | 0.018 | 9     | Pass   |
| Bifenazate          | ND   | 0.035 | 0.012 | 5     | Pass   | Naled                   | ND   | 0.051 | 0.017 | 0.5   | Pass   |
| Bifenthrin          | ND   | 0.040 | 0.013 | 0.5   | Pass   | Oxamyl                  | ND   | 0.046 | 0.015 | 0.3   | Pass   |
| Boscalid            | ND   | 0.060 | 0.020 | 10    | Pass   | Pentachloronitrobenzene | ND   | 0.054 | 0.018 | 0.2   | Pass   |
| Captan              | ND   | 0.358 | 0.120 | 5     | Pass   | Permethrin              | ND   | 0.030 | 0.008 | 20    | Pass   |
| Carbaryl            | ND   | 0.049 | 0.016 | 0.5   | Pass   | Phosmet                 | ND   | 0.038 | 0.012 | 0.2   | Pass   |
| Chlorantraniliprole | ND   | 0.063 | 0.021 | 40    | Pass   | Piperonyl Butoxide      | ND   | 0.030 | 0.008 | 8     | Pass   |
| Clofentezine        | ND   | 0.039 | 0.013 | 0.5   | Pass   | Prallethrin             | ND   | 0.068 | 0.023 | 0.4   | Pass   |
| Cyfluthrin          | ND   | 0.056 | 0.019 | 1     | Pass   | Propiconazole           | ND   | 0.059 | 0.019 | 20    | Pass   |
| Cypermethrin        | ND   | 0.044 | 0.015 | 1     | Pass   | Pyrethrins              | ND   | 0.030 | 0.004 | 1     | Pass   |
| Diazinon            | ND   | 0.030 | 0.006 | 0.2   | Pass   | Pyridaben               | ND   | 0.035 | 0.012 | 3     | Pass   |
| Dimethomorph        | ND   | 0.042 | 0.014 | 20    | Pass   | Spinetoram              | ND   | 0.030 | 0.006 | 3     | Pass   |
| Etoxazole           | ND   | 0.030 | 0.008 | 1.5   | Pass   | Spinosad                | ND   | 0.030 | 0.004 | 3     | Pass   |
| Fenhexamid          | ND   | 0.039 | 0.013 | 10    | Pass   | Spiromesifen            | ND   | 0.042 | 0.014 | 12    | Pass   |
| Fenpyroximate       | ND   | 0.030 | 0.010 | 2     | Pass   | Spirotetramat           | ND   | 0.041 | 0.013 | 13    | Pass   |
| Flonicamid          | ND   | 0.081 | 0.027 | 2     | Pass   | Tebuconazole            | ND   | 0.044 | 0.014 | 2     | Pass   |
| Fludioxonil         | ND   | 0.046 | 0.015 | 30    | Pass   | Thiamethoxam            | ND   | 0.055 | 0.018 | 4.5   | Pass   |
| Hexythiazox         | ND   | 0.078 | 0.026 | 2     | Pass   | Trifloxystrobin         | ND   | 0.031 | 0.010 | 30    | Pass   |
| Imidacloprid        | ND   | 0.071 | 0.023 | 3     | Pass   |                         |      |       |       |       |        |

#### Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Josh Swider Lab Director, Managing Partner 05/05/2022



ICAL ID: 20220503-063 Sample: CA220503-014-065 Penguin Gummy Bears - Full Spectrum + Melatonin Strain: Penguin Gummy Bears - Full Spectrum + Melatonin Category: Ingestible

Penguin Lic.# San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

1 of 3

Batch#: PGB25FS5M Batch Size Collected: Total Batch Size: Collected: 05/13/2022; Received: 05/13/2022 Completed: 05/13/2022

| Mois<br>N<br>Water A<br><b>0.63</b> 8                           | T 84.0   | ∆9-THC<br><b>4 mg/unit</b><br>mg/serving             | CBD<br><b>916.63 mg/unit</b><br>30.55 mg/serving | Total Cannabinoids<br><b>1,008.58 mg/unit</b><br>33.62 mg/serving | Total Terpenes<br>NT |
|---|--|--|--|---|----------------------|
| <b>Summary</b><br>Batch<br>Cannabinoids                         | SOP Used<br>POT-PREP-002   | Date Tested 05/04/2022                               | Pass<br>Complete                                 |   |                      |
| Water Activity<br>Residual Solvents<br>Microbials<br>Mycotoxins | WA-PREP-001<br>RS-PREP-001<br>MICRO-PREP-001<br>PESTMYCO-LC-PREP-001 | 05/05/2022<br>05/04/2022<br>05/04/2022<br>05/04/2022 | Pass - 0.638 aw<br>Pass<br>Pass<br>Pass          |   |                      |
| Heavy Metals<br>Foreign Matter<br>Pesticides                    | HM-PREP-001<br>FM-PREP-001<br>PESTMYCO-LC-PREP-001 /                 | 05/04/2022<br>05/03/2022<br>05/03/2022               | Pass<br>Pass<br>Pass                             | Penguin<br>Gummy Bert   |                      |
| concluco  | PEST-GC-PREP-001   | 00,01,2022   |  |   | Scan to see result   |

## **Cannabinoid Profile**

| Cannab  | oinoid Profi | le         |       |      |         |           | 1 Unit = packag | e, 108.37 g. 3 | 80 servir | ng(s) per | <sup>.</sup> package. |
|---------|--------------|------------|-------|------|---------|-----------|-----------------|----------------|-----------|-----------|-----------------------|
| Analyte | LOQ (mg/g)   | LOD (mg/g) | %     | mg/g | mg/unit | Analyte   | LOQ (mg/g)      | LOD (mg/g)     | %         | mg/g      | mg/unit               |
| THCa    | 0.0128       | 0.0043     | ND    | ND   | ND      | CBDV      | 0.0046          | 0.0004         | 0.002     | 0.02      | 2.06                  |
| Δ9-THC  | 0.0046       | 0.0010     | 0.078 | 0.78 | 84.04   | CBN       | 0.0046          | 0.0005         | ND        | ND        | ND                    |
| ∆8-THC  | 0.0046       | 0.0014     | 0.005 | 0.05 | 5.85    | CBGa      | 0.0046          | 0.0015         | ND        | ND        | ND                    |
| THCV    | 0.0046       | 0.0006     | ND    | ND   | ND      | CBG       | 0.0046          | 0.0005         | ND        | ND        | ND                    |
| CBDa    | 0.0049       | 0.0016     | ND    | ND   | ND      | CBC       | 0.0076          | 0.0025         | ND        | ND        | ND                    |
| CBD     | 0.0046       | 0.0008     | 0.846 | 8.46 | 916.63  | Total THC |                 |                | 0.08      | 0.78      | 84.04                 |
|         |              |            |       |      |         | Total CBD |                 |                | 0.85      | 8.46      | 916.63                |
|         |              |            |       |      |         | Total     |                 |                | 0.93      | 9.31      | 1008.58               |

Total THC=THCa\* 0.877 + d9-THC; Total CBD = CBDa\* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids: UHPLC-DAD(POT-INST-005), Moisture: Moisture Analyzer (MOISTURE-001), Water Activity: Water Activity Meter (WA-INST-002), Foreign Material: Microscope (FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

| Terpene Profil | е          |              |      |         |            |            |        |
|----------------|------------|--------------|------|---------|------------|------------|--------|
| Analyte        | LOQ (mg/g) | LOD (mg/g) % | mg/g | Analyte | LOQ (mg/g) | LOD (mg/g) | % mg/g |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Josh Swider Lab Director, Managing Partner 05/13/2022



ICAL ID: 20220503-063 Sample: CA220503-014-065 Penguin Gummy Bears - Full Spectrum + Melatonin Strain: Penguin Gummy Bears - Full Spectrum + Melatonin Category: Ingestible

Penguin Lic. # San Diego San Diego, CA 92121

Lic. #

2 of 3

Batch#: PGB25FS5M Batch Size Collected: Total Batch Size: Collected: 05/13/2022; Received: 05/13/2022 Completed: 05/13/2022

**Residual Solvent Analysis** 

| Category 1          |              | LOQ           | LOD           | Limit     | Status | Category 2    |            | LOQ            | LOD Limit               | Status | Category 2  |            | LOQ             | LOD Lim             | it Status |
|---------------------|--------------|---------------|---------------|-----------|--------|---------------|------------|----------------|-------------------------|--------|-------------|------------|-----------------|---------------------|-----------|
| 1,2-Dichloro-Ethane | µg/g<br>ND ( | µg/g<br>).264 | µg/g<br>0.088 | µg/g<br>1 | Pass   | Acetone       | µg/g<br>ND | µg/g<br>51.246 | μg/g μg/g<br>0.716 5000 | Pass   | n-Hexane    | µg/g<br>ND | µg/g<br>0.281 0 | μg/g μg<br>).027 29 |           |
| Benzene             | ND (         | ).052         | 0.017         | 1         | Pass   | Acetonitrile  | ND         | 0.42           | 0.14 410                | Pass   | Isopropanol | ND         | 2.86 0          | ).614 500           | 0 Pass    |
| Chloroform          | ND (         | 0.076         | 0.025         | 1         | Pass   | Butane        | ND         | 4.849          | 0.748 5000              | Pass   | Methanol    | ND         | 2.602 0         | 0.867 300           | 0 Pass    |
| Ethylene Oxide      | ND (         | ).579         | 0.179         | 1         | Pass   | Ethanol       | ND         | 7.575          | 2.525 5000              | Pass   | Pentane     | ND         | 5.075 1         | 1.692 500           | 0 Pass    |
| Methylene-Chloride  | ND (         | ).729         | 0.08          | 1         | Pass   | Ethyl-Acetate | ND         | 2.288          | 0.175 5000              | Pass   | Propane     | ND         | 9.709 3         | 3.236 500           | 0 Pass    |
| Trichloroethene     | ND (         | ).145         | 0.028         | 1         | Pass   | Ethyl-Ether   | ND         | 2.869          | 0.389 5000              | Pass   | Toluene     | ND         | 0.864 0         | 0.067 89            | PO Pass   |
|                     |              |               |               |           |        | Heptane       | ND         | 2.859          | 0.496 5000              | Pass   | Xylenes     | ND         | 2.572 0         | ).326 217           | 0 Pass    |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

### **Heavy Metal Screening**

|         |  | LOQ   | LOD   | Limit | Status |
|---------|--|-------|-------|-------|--------|
|         | µg/g   | µg/g  | µg/g  | µg/g  |        |
| Arsenic | ND   | 0.009 | 0.003 | 1.5   | Pass   |
| Cadmium | ND   | 0.002 | 0.001 | 0.5   | Pass   |
| Lead    | <loq< th=""><th>0.004</th><th>0.001</th><th>0.5</th><th>Pass</th></loq<> | 0.004 | 0.001 | 0.5   | Pass   |
| Mercury | ND   | 0.014 | 0.005 | 3     | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

### **Microbiological Screening**

|                       | Limit | Result       | Status |
|-----------------------|-------|--------------|--------|
|                       | CFU/g | CFU/g        |        |
| Aspergillus flavus    |       | NR           | NT     |
| Aspergillus fumigatus |       | NR           | NT     |
| Aspergillus niger     |       | NR           | NT     |
| Aspergillus terreus   |       | NR           | NT     |
| STEC                  |       | Not Detected | Pass   |
| Salmonella SPP        |       | Not Detected | Pass   |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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Josh Swider Lab Director, Managing Partner 05/13/2022



ICAL ID: 20220503-063 Sample: CA220503-014-065 Penguin Gummy Bears - Full Spectrum + Melatonin Strain: Penguin Gummy Bears - Full Spectrum + Melatonin Category: Ingestible

Penguin Lic. # San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

3 of 3

Batch#: PGB25FS5M Batch Size Collected: Total Batch Size: Collected: 05/13/2022; Received: 05/13/2022 Completed: 05/13/2022

**Chemical Residue Screening** 

| Category 1       |      | LOQ   | LOD   | Status |
|------------------|------|-------|-------|--------|
|                  | µg/g | µg/g  | µg/g  |        |
| Aldicarb         | ND   | 0.065 | 0.022 | Pass   |
| Carbofuran       | ND   | 0.030 | 0.009 | Pass   |
| Chlordane        | ND   | 0.075 | 0.025 | Pass   |
| Chlorfenapyr     | ND   | 0.075 | 0.025 | Pass   |
| Chlorpyrifos     | ND   | 0.053 | 0.018 | Pass   |
| Coumaphos        | ND   | 0.056 | 0.018 | Pass   |
| Daminozide       | ND   | 0.079 | 0.026 | Pass   |
| Dichlorvos       | ND   | 0.067 | 0.022 | Pass   |
| Dimethoate       | ND   | 0.036 | 0.012 | Pass   |
| Ethoprophos      | ND   | 0.053 | 0.017 | Pass   |
| Etofenprox       | ND   | 0.030 | 0.008 | Pass   |
| Fenoxycarb       | ND   | 0.043 | 0.014 | Pass   |
| Fipronil         | ND   | 0.045 | 0.015 | Pass   |
| Imazalil         | ND   | 0.047 | 0.016 | Pass   |
| Methiocarb       | ND   | 0.047 | 0.016 | Pass   |
| Mevinphos        | ND   | 0.042 | 0.014 | Pass   |
| Paclobutrazol    | ND   | 0.040 | 0.013 | Pass   |
| Parathion Methyl | ND   | 0.024 | 0.008 | Pass   |
| Propoxur         | ND   | 0.047 | 0.016 | Pass   |
| Spiroxamine      | ND   | 0.032 | 0.011 | Pass   |
| Thiacloprid      | ND   | 0.042 | 0.014 | Pass   |

| Mycotoxins       |       | LOQ   | LOD   | Limit | Status |
|------------------|-------|-------|-------|-------|--------|
|                  | µg/kg | µg/kg | µg/kg | µg/kg |        |
| B1               | NĎ    | 7.88  | 2.6   |       | Tested |
| B2               | ND    | 6.18  | 2.04  |       | Tested |
| G1               | ND    | 8.99  | 2.97  |       | Tested |
| G2               | ND    | 5.72  | 1.89  |       | Tested |
| Ochratoxin A     | ND    | 11.72 | 3.87  | 20    | Pass   |
| Total Aflatoxins | ND    |       |       | 20    | Pass   |

| Category 2          |      | LOQ   | LOD   | Limit | Status | Category 2              |      | LOQ   | LOD   | Limit | Status |
|---------------------|------|-------|-------|-------|--------|-------------------------|------|-------|-------|-------|--------|
|                     | µg/g | µg/g  | µg/g  | µg/g  |        |                         | µg/g | µg/g  | µg/g  | µg/g  |        |
| Abamectin           | ND   | 0.030 | 0.010 | 0.3   | Pass   | Kresoxim Methyl         | ND   | 0.038 | 0.012 | 1     | Pass   |
| Acephate            | ND   | 0.050 | 0.016 | 5     | Pass   | Malathion               | ND   | 0.035 | 0.012 | 5     | Pass   |
| Acequinocyl         | ND   | 0.059 | 0.019 | 4     | Pass   | Metalaxyl               | ND   | 0.031 | 0.010 | 15    | Pass   |
| Acetamiprid         | ND   | 0.044 | 0.015 | 5     | Pass   | Methomyl                | ND   | 0.048 | 0.016 | 0.1   | Pass   |
| Azoxystrobin        | ND   | 0.029 | 0.010 | 40    | Pass   | Myclobutanil            | ND   | 0.055 | 0.018 | 9     | Pass   |
| Bifenazate          | ND   | 0.035 | 0.012 | 5     | Pass   | Naled                   | ND   | 0.051 | 0.017 | 0.5   | Pass   |
| Bifenthrin          | ND   | 0.040 | 0.013 | 0.5   | Pass   | Oxamyl                  | ND   | 0.046 | 0.015 | 0.3   | Pass   |
| Boscalid            | ND   | 0.060 | 0.020 | 10    | Pass   | Pentachloronitrobenzene | ND   | 0.054 | 0.018 | 0.2   | Pass   |
| Captan              | ND   | 0.358 | 0.120 | 5     | Pass   | Permethrin              | ND   | 0.030 | 0.008 | 20    | Pass   |
| Carbaryl            | ND   | 0.049 | 0.016 | 0.5   | Pass   | Phosmet                 | ND   | 0.038 | 0.012 | 0.2   | Pass   |
| Chlorantraniliprole | ND   | 0.063 | 0.021 | 40    | Pass   | Piperonyl Butoxide      | ND   | 0.030 | 0.008 | 8     | Pass   |
| Clofentezine        | ND   | 0.039 | 0.013 | 0.5   | Pass   | Prallethrin             | ND   | 0.068 | 0.023 | 0.4   | Pass   |
| Cyfluthrin          | ND   | 0.056 | 0.019 | 1     | Pass   | Propiconazole           | ND   | 0.059 | 0.019 | 20    | Pass   |
| Cypermethrin        | ND   | 0.044 | 0.015 | 1     | Pass   | Pyrethrins              | ND   | 0.030 | 0.004 | 1     | Pass   |
| Diazinon            | ND   | 0.030 | 0.006 | 0.2   | Pass   | Pyridaben               | ND   | 0.035 | 0.012 | 3     | Pass   |
| Dimethomorph        | ND   | 0.042 | 0.014 | 20    | Pass   | Spinetoram              | ND   | 0.030 | 0.006 | 3     | Pass   |
| Etoxazole           | ND   | 0.030 | 0.008 | 1.5   | Pass   | Spinosad                | ND   | 0.030 | 0.004 | 3     | Pass   |
| Fenhexamid          | ND   | 0.039 | 0.013 | 10    | Pass   | Spiromesifen            | ND   | 0.042 | 0.014 | 12    | Pass   |
| Fenpyroximate       | ND   | 0.030 | 0.010 | 2     | Pass   | Spirotetramat           | ND   | 0.041 | 0.013 | 13    | Pass   |
| Flonicamid          | ND   | 0.081 | 0.027 | 2     | Pass   | Tebuconazole            | ND   | 0.044 | 0.014 | 2     | Pass   |
| Fludioxonil         | ND   | 0.046 | 0.015 | 30    | Pass   | Thiamethoxam            | ND   | 0.055 | 0.018 | 4.5   | Pass   |
| Hexythiazox         | ND   | 0.078 | 0.026 | 2     | Pass   | Trifloxystrobin         | ND   | 0.031 | 0.010 | 30    | Pass   |
| Imidacloprid        | ND   | 0.071 | 0.023 | 3     | Pass   |                         |      |       |       |       |        |

#### Other Analyte(s): Melatonin: 131.54 mg/package

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Josh Swider Lab Director, Managing Partner 05/13/2022



ICAL ID: 20220503-065 Sample: CA220503-014-067 Penguin Gummy Bears - Full Spectrum Strain: Penguin Gummy Bears - Full Spectrum Category: Ingestible

Penguin Lic.# San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

1 of 3

Batch#: PGB25FS Batch Size Collected: Total Batch Size: Collected: 05/05/2022; Received: 05/05/2022 Completed: 05/05/2022

| N<br>Water A<br><b>0.64</b> | Activity 89.50        | <b>) mg/unit</b><br>mg/serving | 971.77 mg/unit<br>32.39 mg/serving | 1,069.82 mg/unit<br>35.66 mg/serving   | Total Terpenes<br>NT |
|-----------------------------|-----------------------|--------------------------------|------------------------------------|--|----------------------|
| Summary                     | SOP Used              | Date Tested                    |                                    |  |                      |
| Batch                       |                       |                                | Pass                               |  |                      |
| Cannabinoids                | POT-PREP-002          | 05/04/2022                     | Complete                           |  |                      |
| Water Activity              | WA-PREP-001           | 05/05/2022                     | Pass - 0.646 aw                    |  |                      |
| Residual Solvents           |                       | 05/04/2022                     | Pass                               |  |                      |
| Microbials                  | MICRO-PREP-001        | 05/04/2022                     | Pass                               |  |                      |
| Mycotoxins                  | PESTMYCO-LC-PREP-001  | 05/04/2022                     | Pass                               |  |                      |
| Heavy Metals                | HM-PREP-001           | 05/04/2022                     | Pass                               | Penguin<br>Gummy Bears   |                      |
| Foreign Matter              | FM-PREP-001           | 05/03/2022                     | Pass                               | Annual Functionance (second and second and s |                      |
| Pesticides                  | PESTMYCO-LC-PREP-001/ | 05/04/2022                     | Pass                               |  | Coop to soo yooult   |
|                             | PEST-GC-PREP-001      |                                |                                    | Hamp Bugglander  | Scan to see result   |

## **Cannabinoid Profile**

| Cannab  | oinoid Profi | le         |       |      | 1 Unit = packag | ge, 108.23 g. 3 | 80 servir  | ng(s) per  | package.  |      |                     |
|---------|--------------|------------|-------|------|-----------------|-----------------|------------|------------|---|------|---------------------|
| Analyte | LOQ (mg/g)   | LOD (mg/g) | %     | mg/g | mg/unit         | Analyte         | LOQ (mg/g) | LOD (mg/g) | %   | mg/g | mg/unit             |
| THCa    | 0.0128       | 0.0043     | ND    | ND   | ND              | CBDV            | 0.0046     | 0.0004     | 0.002   | 0.02 | 2.16                |
| Δ9-THC  | 0.0046       | 0.0010     | 0.083 | 0.83 | 89.50           | CBN             | 0.0046     | 0.0005     | <loq< th=""><th>&lt;1</th><th><loq< th=""></loq<></th></loq<> | <1   | <loq< th=""></loq<> |
| ∆8-THC  | 0.0046       | 0.0014     | 0.006 | 0.06 | 6.39            | CBGa            | 0.0046     | 0.0015     | ND  | ND   | ND                  |
| THCV    | 0.0046       | 0.0006     | ND    | ND   | ND              | CBG             | 0.0046     | 0.0005     | ND  | ND   | ND                  |
| CBDa    | 0.0049       | 0.0016     | ND    | ND   | ND              | CBC             | 0.0076     | 0.0025     | ND  | ND   | ND                  |
| CBD     | 0.0046       | 0.0008     | 0.898 | 8.98 | 971.77          | Total THC       |            |            | 0.08  | 0.83 | 89.50               |
|         |              |            |       |      |                 | Total CBD       |            |            | 0.90  | 8.98 | 971.77              |
|         |              |            |       |      |                 | Total           |            |            | 0.99  | 9.88 | 1069.82             |

Total THC=THCa\* 0.877 + d9-THC; Total CBD = CBDa\* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids: UHPLC-DAD(POT-INST-005), Moisture: Moisture Analyzer (MOISTURE-001), Water Activity: Water Activity Meter (WA-INST-002), Foreign Material: Microscope (FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

| Terpene Profil | е          |              |      |         |            |            |        |
|----------------|------------|--------------|------|---------|------------|------------|--------|
| Analyte        | LOQ (mg/g) | LOD (mg/g) % | mg/g | Analyte | LOQ (mg/g) | LOD (mg/g) | % mg/g |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Josh Swider Lab Director, Managing Partner 05/05/2022



ICAL ID: 20220503-065 Sample: CA220503-014-067 Penguin Gummy Bears - Full Spectrum Strain: Penguin Gummy Bears - Full Spectrum Category: Ingestible

Penguin Lic.# San Diego San Diego, CA 92121

#### Lic.#

2 of 3

Batch#: PGB25FS Batch Size Collected: Total Batch Size: Collected: 05/05/2022; Received: 05/05/2022 Completed: 05/05/2022

**Residual Solvent Analysis** 

| Category 1          |              | LOQ           | LOD           | Limit     | Status | Category 2    |            | LOQ            | LOD Limit               | Status | Category 2  |            | LOQ             | LOD Lim             | it Status |
|---------------------|--------------|---------------|---------------|-----------|--------|---------------|------------|----------------|-------------------------|--------|-------------|------------|-----------------|---------------------|-----------|
| 1,2-Dichloro-Ethane | µg/g<br>ND ( | µg/g<br>).264 | µg/g<br>0.088 | µg/g<br>1 | Pass   | Acetone       | µg/g<br>ND | µg/g<br>51.246 | μg/g μg/g<br>0.716 5000 | Pass   | n-Hexane    | µg/g<br>ND | µg/g<br>0.281 0 | μg/g μg<br>).027 29 |           |
| Benzene             | ND (         | ).052         | 0.017         | 1         | Pass   | Acetonitrile  | ND         | 0.42           | 0.14 410                | Pass   | Isopropanol | ND         | 2.86 0          | ).614 500           | 0 Pass    |
| Chloroform          | ND (         | 0.076         | 0.025         | 1         | Pass   | Butane        | ND         | 4.849          | 0.748 5000              | Pass   | Methanol    | ND         | 2.602 0         | 0.867 300           | 0 Pass    |
| Ethylene Oxide      | ND (         | ).579         | 0.179         | 1         | Pass   | Ethanol       | ND         | 7.575          | 2.525 5000              | Pass   | Pentane     | ND         | 5.075 1         | 1.692 500           | 0 Pass    |
| Methylene-Chloride  | ND (         | ).729         | 0.08          | 1         | Pass   | Ethyl-Acetate | ND         | 2.288          | 0.175 5000              | Pass   | Propane     | ND         | 9.709 3         | 3.236 500           | 0 Pass    |
| Trichloroethene     | ND (         | ).145         | 0.028         | 1         | Pass   | Ethyl-Ether   | ND         | 2.869          | 0.389 5000              | Pass   | Toluene     | ND         | 0.864 0         | 0.067 89            | PO Pass   |
|                     |              |               |               |           |        | Heptane       | ND         | 2.859          | 0.496 5000              | Pass   | Xylenes     | ND         | 2.572 0         | ).326 217           | 0 Pass    |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

### **Heavy Metal Screening**

|         |  | LOQ   | LOD   | Limit | Status |
|---------|--|-------|-------|-------|--------|
|         | µg/g   | µg/g  | µg/g  | µg/g  |        |
| Arsenic | ND   | 0.009 | 0.003 | 1.5   | Pass   |
| Cadmium | ND   | 0.002 | 0.001 | 0.5   | Pass   |
| Lead    | <loq< th=""><th>0.004</th><th>0.001</th><th>0.5</th><th>Pass</th></loq<> | 0.004 | 0.001 | 0.5   | Pass   |
| Mercury | ND   | 0.014 | 0.005 | 3     | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

### **Microbiological Screening**

|                       | Limit | Result       | Status |
|-----------------------|-------|--------------|--------|
|                       | CFU/g | CFU/g        |        |
| Aspergillus flavus    |       | NR           | NT     |
| Aspergillus fumigatus |       | NR           | NT     |
| Aspergillus niger     |       | NR           | NT     |
| Aspergillus terreus   |       | NR           | NT     |
| STEC                  |       | Not Detected | Pass   |
| Salmonella SPP        |       | Not Detected | Pass   |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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Josh Swider Lab Director, Managing Partner 05/05/2022



ICAL ID: 20220503-065 Sample: CA220503-014-067 Penguin Gummy Bears - Full Spectrum Strain: Penguin Gummy Bears - Full Spectrum Category: Ingestible Penguin Lic. # San Diego San Diego, CA 92121

Lic.#

#### **QA SAMPLE - INFORMATIONAL ONLY**

3 of 3

Batch#: PGB25FS Batch Size Collected: Total Batch Size: Collected: 05/05/2022; Received: 05/05/2022 Completed: 05/05/2022

### **Chemical Residue Screening**

| Category 1       |      | LOQ   | LOD   | Status |
|------------------|------|-------|-------|--------|
|                  | µg/g | µg/g  | µg/g  |        |
| Aldicarb         | ND   | 0.065 | 0.022 | Pass   |
| Carbofuran       | ND   | 0.030 | 0.009 | Pass   |
| Chlordane        | ND   | 0.075 | 0.025 | Pass   |
| Chlorfenapyr     | ND   | 0.075 | 0.025 | Pass   |
| Chlorpyrifos     | ND   | 0.053 | 0.018 | Pass   |
| Coumaphos        | ND   | 0.056 | 0.018 | Pass   |
| Daminozide       | ND   | 0.079 | 0.026 | Pass   |
| Dichlorvos       | ND   | 0.067 | 0.022 | Pass   |
| Dimethoate       | ND   | 0.036 | 0.012 | Pass   |
| Ethoprophos      | ND   | 0.053 | 0.017 | Pass   |
| Etofenprox       | ND   | 0.030 | 0.008 | Pass   |
| Fenoxycarb       | ND   | 0.043 | 0.014 | Pass   |
| Fipronil         | ND   | 0.045 | 0.015 | Pass   |
| Imazalil         | ND   | 0.047 | 0.016 | Pass   |
| Methiocarb       | ND   | 0.047 | 0.016 | Pass   |
| Mevinphos        | ND   | 0.042 | 0.014 | Pass   |
| Paclobutrazol    | ND   | 0.040 | 0.013 | Pass   |
| Parathion Methyl | ND   | 0.024 | 0.008 | Pass   |
| Propoxur         | ND   | 0.047 | 0.016 | Pass   |
| Spiroxamine      | ND   | 0.032 | 0.011 | Pass   |
| Thiacloprid      | ND   | 0.042 | 0.014 | Pass   |

| Status | Limit    | LOD                  | LOQ                  |                      | Mycotoxins                     |
|--------|----------|----------------------|----------------------|----------------------|--------------------------------|
|        | µg/kg    | µg/kg                | µg/kg                | µg/kg                |                                |
| Tested |          | 2.6                  | 7.88                 | ND                   | B1                             |
| Tested |          | 2.04                 | 6.18                 | ND                   | B2                             |
| Tested |          | 2.97                 | 8.99                 | ND                   | G1                             |
| Tested |          | 1.89                 | 5.72                 | ND                   | G2                             |
| Pass   | 20       | 3.87                 | 11.72                | ND                   | Ochratoxin A                   |
| Pass   | 20       |                      |                      | ND                   | Total Aflatoxins               |
|        | 20<br>20 | 2.04<br>2.97<br>1.89 | 6.18<br>8.99<br>5.72 | ND<br>ND<br>ND<br>ND | B2<br>G1<br>G2<br>Ochratoxin A |

| Category 2          |      | LOQ   | LOD   | Limit | Status | Category 2              |      | LOQ   | LOD   | Limit | Status |
|---------------------|------|-------|-------|-------|--------|-------------------------|------|-------|-------|-------|--------|
|                     | µg/g | µg/g  | µg/g  | µg/g  |        |                         | µg/g | µg/g  | µg/g  | µg/g  |        |
| Abamectin           | ND   | 0.030 | 0.010 | 0.3   | Pass   | Kresoxim Methyl         | ND   | 0.038 | 0.012 | 1     | Pass   |
| Acephate            | ND   | 0.050 | 0.016 | 5     | Pass   | Malathion               | ND   | 0.035 | 0.012 | 5     | Pass   |
| Acequinocyl         | ND   | 0.059 | 0.019 | 4     | Pass   | Metalaxyl               | ND   | 0.031 | 0.010 | 15    | Pass   |
| Acetamiprid         | ND   | 0.044 | 0.015 | 5     | Pass   | Methomyl                | ND   | 0.048 | 0.016 | 0.1   | Pass   |
| Azoxystrobin        | ND   | 0.029 | 0.010 | 40    | Pass   | Myclobutanil            | ND   | 0.055 | 0.018 | 9     | Pass   |
| Bifenazate          | ND   | 0.035 | 0.012 | 5     | Pass   | Naled                   | ND   | 0.051 | 0.017 | 0.5   | Pass   |
| Bifenthrin          | ND   | 0.040 | 0.013 | 0.5   | Pass   | Oxamyl                  | ND   | 0.046 | 0.015 | 0.3   | Pass   |
| Boscalid            | ND   | 0.060 | 0.020 | 10    | Pass   | Pentachloronitrobenzene | ND   | 0.054 | 0.018 | 0.2   | Pass   |
| Captan              | ND   | 0.358 | 0.120 | 5     | Pass   | Permethrin              | ND   | 0.030 | 0.008 | 20    | Pass   |
| Carbaryl            | ND   | 0.049 | 0.016 | 0.5   | Pass   | Phosmet                 | ND   | 0.038 | 0.012 | 0.2   | Pass   |
| Chlorantraniliprole | ND   | 0.063 | 0.021 | 40    | Pass   | Piperonyl Butoxide      | ND   | 0.030 | 0.008 | 8     | Pass   |
| Clofentezine        | ND   | 0.039 | 0.013 | 0.5   | Pass   | Prallethrin             | ND   | 0.068 | 0.023 | 0.4   | Pass   |
| Cyfluthrin          | ND   | 0.056 | 0.019 | 1     | Pass   | Propiconazole           | ND   | 0.059 | 0.019 | 20    | Pass   |
| Cypermethrin        | ND   | 0.044 | 0.015 | 1     | Pass   | Pyrethrins              | ND   | 0.030 | 0.004 | 1     | Pass   |
| Diazinon            | ND   | 0.030 | 0.006 | 0.2   | Pass   | Pyridaben               | ND   | 0.035 | 0.012 | 3     | Pass   |
| Dimethomorph        | ND   | 0.042 | 0.014 | 20    | Pass   | Spinetoram              | ND   | 0.030 | 0.006 | 3     | Pass   |
| Etoxazole           | ND   | 0.030 | 0.008 | 1.5   | Pass   | Spinosad                | ND   | 0.030 | 0.004 | 3     | Pass   |
| Fenhexamid          | ND   | 0.039 | 0.013 | 10    | Pass   | Spiromesifen            | ND   | 0.042 | 0.014 | 12    | Pass   |
| Fenpyroximate       | ND   | 0.030 | 0.010 | 2     | Pass   | Spirotetramat           | ND   | 0.041 | 0.013 | 13    | Pass   |
| Flonicamid          | ND   | 0.081 | 0.027 | 2     | Pass   | Tebuconazole            | ND   | 0.044 | 0.014 | 2     | Pass   |
| Fludioxonil         | ND   | 0.046 | 0.015 | 30    | Pass   | Thiamethoxam            | ND   | 0.055 | 0.018 | 4.5   | Pass   |
| Hexythiazox         | ND   | 0.078 | 0.026 | 2     | Pass   | Trifloxystrobin         | ND   | 0.031 | 0.010 | 30    | Pass   |
| Imidacloprid        | ND   | 0.071 | 0.023 | 3     | Pass   |                         |      |       |       |       |        |

#### Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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