

## Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

# Pistachio Runtz

Client: 



Total CBD

ND

Total THC

27.06 %

Total Cannabinoids

30.81 %

### Analysis Summary

Residual Pesticides

Pass

Mycotoxins

Pass

Heavy Metals

Pass

Microbial Impurities

Pass

Sample Name:

Pistachio Runtz

Batch Number:

PLD82224PPD

Matrix:

Plant

Unit Mass:

1 g per unit

Sample ID:

47440821-14

Date Received:

8/21/2024



Approved By:

Marie True, M.S.

Laboratory Manager

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**References:** limit of detection (LOD), limit of quantitation (LOQ), not detected (ND), not tested (NT)

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## Cannabinoid Analysis

Complete

| Analyte                   | LOD (%)       | LOQ (%)       | Mass (%)      | Mass (mg/g)   |
|---------------------------|---------------|---------------|---------------|---------------|
| CBDV                      | 0.0035        | 0.011         | ND            | ND            |
| CBD                       | 0.0030        | 0.0090        | ND            | ND            |
| CBG                       | 0.0038        | 0.011         | ND            | ND            |
| CBDA                      | 0.0017        | 0.0052        | ND            | ND            |
| CBN                       | 0.00080       | 0.0024        | ND            | ND            |
| <b>Delta 9-THC</b>        | <b>0.0022</b> | <b>0.0067</b> | <b>0.259</b>  | <b>2.59</b>   |
| Delta 8-THC               | 0.0020        | 0.0059        | ND            | ND            |
| CBC                       | 0.00070       | 0.0021        | ND            | ND            |
| <b>THCA</b>               | <b>0.0024</b> | <b>0.0073</b> | <b>30.555</b> | <b>305.55</b> |
| Total CBD                 |               |               | ND            | ND            |
| <b>Total THC</b>          |               |               | <b>27.06</b>  | <b>270.56</b> |
| <b>Total Cannabinoids</b> |               |               | <b>30.81</b>  | <b>308.14</b> |

Date Tested: 8/22/2024

Total THC = THCa \* 0.877 + d9-THC + d8-THC

Total CBD = CBDa \* 0.877 + CBD

## Pesticide Analysis

Pass

| Analyte             | LOQ (ppm) | Limit (ppm) | Mass (ppm) | Status |
|---------------------|-----------|-------------|------------|--------|
| Abamectin           | 0.050     | 0.10        | ND         | Pass   |
| Acephate            | 0.050     | 0.10        | ND         | Pass   |
| Acequinocyl         | 0.050     | 0.10        | ND         | Pass   |
| Acetamiprid         | 0.050     | 0.10        | ND         | Pass   |
| Aldicarb            | 0.050     | 0.00        | ND         | Pass   |
| Azoxystrobin        | 0.050     | 0.10        | ND         | Pass   |
| Bifenazate          | 0.050     | 0.10        | ND         | Pass   |
| Bifenthrin          | 0.050     | 3.00        | ND         | Pass   |
| Boscalid            | 0.050     | 0.10        | ND         | Pass   |
| Captan              | 0.050     | 0.70        | ND         | Pass   |
| Carbaryl            | 0.050     | 0.50        | ND         | Pass   |
| Carbofuran          | 0.050     | 0.00        | ND         | Pass   |
| Chlorantraniliprole | 0.050     | 10.00       | ND         | Pass   |
| Chlordane           | 0.050     | 0.00        | ND         | Pass   |
| Chlorfenapyr        | 0.050     | 0.00        | ND         | Pass   |
| Chlorpyrifos        | 0.050     | 0.00        | ND         | Pass   |
| Clofentezine        | 0.050     | 0.10        | ND         | Pass   |
| Coumaphos           | 0.050     | 0.00        | ND         | Pass   |
| Cyfluthrin          | 0.050     | 2.00        | ND         | Pass   |
| Cypermethrin        | 0.050     | 1.00        | ND         | Pass   |
| Daminozide          | 0.050     | 0.00        | ND         | Pass   |
| DDVP                | 0.050     | 0.00        | ND         | Pass   |
| Diazinon            | 0.050     | 0.10        | ND         | Pass   |
| Dimethoate          | 0.050     | 0.00        | ND         | Pass   |
| Dimethomorph        | 0.050     | 2.00        | ND         | Pass   |
| Ethoprophos         | 0.050     | 0.00        | ND         | Pass   |
| Etofenprox          | 0.050     | 0.00        | ND         | Pass   |
| Etoxazole           | 0.050     | 0.10        | ND         | Pass   |
| Fenhexamid          | 0.050     | 0.10        | ND         | Pass   |
| Fenoxycarb          | 0.050     | 0.00        | ND         | Pass   |
| Fenpyroximate       | 0.050     | 0.10        | ND         | Pass   |
| Fipronil            | 0.050     | 0.00        | ND         | Pass   |
| Flonicamid          | 0.050     | 0.10        | ND         | Pass   |
| Fludioxonil         | 0.050     | 0.10        | ND         | Pass   |

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Pass

| Analyte                 | LOQ (ppm) | Limit (ppm) | Mass (ppm) | Status |
|-------------------------|-----------|-------------|------------|--------|
| Hexythiazox             | 0.050     | 0.10        | ND         | Pass   |
| Imazalil                | 0.050     | 0.00        | ND         | Pass   |
| Imidacloprid            | 0.050     | 5.00        | ND         | Pass   |
| Kresoxim Methyl         | 0.050     | 0.10        | ND         | Pass   |
| Malathion               | 0.050     | 0.50        | ND         | Pass   |
| Metalaxyl               | 0.050     | 2.00        | ND         | Pass   |
| Methiocarb              | 0.050     | 0.00        | ND         | Pass   |
| Methomyl                | 0.050     | 1.00        | ND         | Pass   |
| Methyl Parathion        | 0.050     | 0.00        | ND         | Pass   |
| Mevinphos               | 0.050     | 0.00        | ND         | Pass   |
| Myclobutanil            | 0.050     | 0.10        | ND         | Pass   |
| Naled                   | 0.050     | 0.10        | ND         | Pass   |
| Oxamyl                  | 0.050     | 0.50        | ND         | Pass   |
| Paclobutrazol           | 0.050     | 0.00        | ND         | Pass   |
| Pentachloronitrobenzene | 0.050     | 0.10        | ND         | Pass   |
| Permethrin              | 0.050     | 0.50        | ND         | Pass   |
| Phosmet                 | 0.050     | 0.10        | ND         | Pass   |
| Piperonyl Butoxide      | 0.050     | 3.00        | ND         | Pass   |
| Prallethrin             | 0.050     | 0.10        | ND         | Pass   |
| Propiconazole           | 0.050     | 0.10        | ND         | Pass   |
| Propoxur                | 0.050     | 0.00        | ND         | Pass   |
| Pyrethrins              | 0.050     | 0.50        | ND         | Pass   |
| Pyridaben               | 0.050     | 0.10        | ND         | Pass   |
| Spinetoram              | 0.050     | 0.10        | ND         | Pass   |
| Spinosad                | 0.050     | 0.10        | ND         | Pass   |
| Spiromesifen            | 0.050     | 0.10        | ND         | Pass   |
| Spirotetramat           | 0.050     | 0.10        | ND         | Pass   |
| Spiroxamine             | 0.050     | 0.00        | ND         | Pass   |
| Tebuconazole            | 0.050     | 0.10        | ND         | Pass   |
| Thiacloprid             | 0.050     | 0.00        | ND         | Pass   |
| Thiamethoxam            | 0.050     | 5.00        | ND         | Pass   |
| Trifloxystrobin         | 0.050     | 0.10        | ND         | Pass   |

Date Tested: 8/22/2024

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## Mycotoxins

Pass

| Analyte      | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|--------------|------------|--------------|-------------|--------|
| Aflatoxin B1 | 0.02       | 0.02         | ND          | Pass   |
| Aflatoxin B2 | 0.02       | 0.02         | ND          | Pass   |
| Aflatoxin G1 | 0.02       | 0.02         | ND          | Pass   |
| Aflatoxin G2 | 0.02       | 0.02         | ND          | Pass   |
| Ochratoxin A | 0.02       | 0.02         | ND          | Pass   |

Date Tested: 8/22/2024

## Heavy Metals Analysis

Pass

| Analyte | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|---------|------------|--------------|-------------|--------|
| Arsenic | 0.050      | 0.200        | ND          | Pass   |
| Cadmium | 0.050      | 0.200        | ND          | Pass   |
| Lead    | 0.125      | 0.500        | ND          | Pass   |
| Mercury | 0.025      | 0.100        | ND          | Pass   |

Date Tested: 8/23/2024

## Microbial Analysis

Pass

| Test                                          | Result (CFU/g) | Status |
|-----------------------------------------------|----------------|--------|
| <i>Aspergillus flavus</i>                     | Absent / 1g    | Pass   |
| <i>Aspergillus fumigatus</i>                  | Absent / 1g    | Pass   |
| <i>Aspergillus niger</i>                      | Absent / 1g    | Pass   |
| <i>Aspergillus terreus</i>                    | Absent / 1g    | Pass   |
| Shiga-toxin producing <i>Escherichia coli</i> | Absent / 1g    | Pass   |
| <i>Salmonella</i>                             | Absent / 1g    | Pass   |

Date Tested: 8/23/2024

CFU = Colony Forming Units

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| Method References:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Testing Location                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <p>Cannabinoid Profile (UNODC)</p> <p>Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL (modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajslova, and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue</p> <p>United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products</p> | <p>FESA Labs - Santa Ana, CA</p> |
| <p>Multi-Residue Pesticide Analysis - (AOAC_200701)</p> <p>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</p> <p>CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.</p>                                                                                                                                               | <p>FESA Labs - Santa Ana, CA</p> |
| <p>Mycotoxins Analysis - 5 compounds (FDA_MYC)</p> <p>Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).</p>                                                                                                                                                                                                                                                                                                                                                                                    | <p>FESA Labs - Santa Ana, CA</p> |
| <p>Heavy Metals Analysis - 4 elements (EPA_200.8)</p> <p>Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.</p> <p>"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).</p>                                                                                                                                                                                                                                                                      | <p>FESA Labs - Santa Ana, CA</p> |
| <p>Microbial Analysis - (FDABAM_4A_5_18)</p> <p>U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 4A, Diarrheagenic Escherichia coli; Chapter 5, Salmonella; Chapter 18, Yeasts, Molds and Mycotoxins (modified).</p>                                                                                                                                                                                                                                                                                                                                                                                    | <p>FESA Labs - Santa Ana, CA</p> |

## Testing Location:

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