



Certificate of Analysis

Jul 21, 2021 | Roman Empire Farms

662 Salt Springville Rd.,
Fort Plain, NY, 13339



Sample:KN10519004-001

Harvest/Lot ID: 21130-001

Seed to Sale# N/A

Batch Date: 05/10/21

Batch#: 21130-001

Sample Size Received: 30

Total Weight/Volume: N/A

Retail Product Size: 30 gram

Ordered : 05/17/21

sampled : 05/17/21

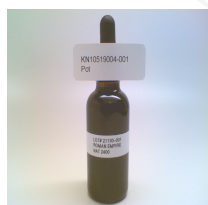
Completed: 05/24/21 Expires: 05/24/22

Sampling Method: SOP Client Method

PASSED

Page 1 of 4

PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

CANNABINOID RESULTS



Total THC
0.228%



Total CBD
9.062%



Total Cannabinoids
9.898%

| | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> | |
|------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------|
| | CBDV | CBDA | CBGA | CBG | CBD | THCV | CBN | D9-THC | D8-THC | CBC | THCA |
| % | 0.0210 | 0.0410 | <0.010 | 0.2410 | 9.0260 | 0.0150 | 0.0110 | 0.2280 | ND | 0.3120 | <0.010 |
| mg/g | 0.2100 | 0.4100 | <0.010 | 2.4100 | 90.2600 | 0.1500 | 0.1100 | 2.2799 | ND | 3.1200 | <0.010 |
| LOD | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 |
| | % | % | % | % | % | % | % | % | % | % | % |

| Filtration | PASSED |
|------------|--------|
|------------|--------|

| Analyzed By | Weight | Extraction date | Extracted By |
|--|---------------------------------|-----------------|--------------|
| 142 | 0.6205g | NA | NA |
| Analyte | LOD | Result | ND |
| Filtration and Foreign Material | 0.3 | ND | ND |
| Analysis Method -SOP.T.40.013 | Batch Date : 05/20/21 14:34:47 | | |
| Analytical Batch -KN000901FIL | Reviewed On - 05/20/21 14:47:44 | | |
| Instrument Used : E-AMS-138 Microscope | | | |
| Running On : | | | |

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2713 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

| Analyzed by | Weight | Extraction date : | Extracted By : |
|---|---------|-------------------|--------------------------------|
| 113 | 0.2038g | 05/19/21 03:05:30 | 946 |
| Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution. | | | |
| Analytical Batch -KN000890POT Instrument Used : HPLC E-SHI-008 | | Running On : | Batch Date : 05/19/21 08:31:40 |

| Reagent | Dilution | Consums. ID |
|------------|----------|--------------|
| 120320.R02 | 40 | 94789291.217 |
| 051821.R01 | | 200331059 |
| 050521.R04 | | |

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). *Based on FL action limits.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Sue Ferguson
Lab Director

State License # n/a
ISO Accreditation #
17025:2017

Sue Ferguson
Signature

05/24/21

Signed On



Certificate of Analysis

PASSED

Roman Empire Farms

662 Salt Springville Rd.,
Fort Plain, NY, 13339

Telephone: -

Email: adam@romanempirefarms.com

Sample : KN10519004-001

Harvest/LOT ID: 21130-001

Batch# : 21130-001

Sampled : 05/17/21

Ordered : 05/17/21

Sample Size Received : 30

Total Weight/Volume : N/A

Completed : 05/24/21 **Expires:** 05/24/22

Sample Method : SOP Client Method

Page 2 of 4

| | | |
|--|---------------------|-----------------|
|  | <h2>Pesticides</h2> | <h1>PASSED</h1> |
|--|---------------------|-----------------|

| Pesticides | LOD | Units | Action Level | Result | Pesticides | LOD | Units | Action Level | Result |
|----------------------|------|-------|--------------|--------|--------------------|------|-------|--------------|--------|
| ABAMECTIN B1A | 0.01 | ppm | 0.3 | ND | PIPERONYL BUTOXIDE | 0.01 | ppm | 3 | ND |
| ACEPHATE | 0.01 | ppm | 3 | ND | PRALLETHRIN | 0.01 | ppm | 0.4 | ND |
| ACEQUINOCYL | 0.01 | ppm | 2 | ND | PROPICONAZOLE | 0.01 | ppm | 1 | ND |
| ACETAMIPRID | 0.01 | ppm | 3 | ND | PROPOXUR | 0.01 | ppm | 0.1 | ND |
| ALDICARB | 0.01 | ppm | 0.1 | ND | PYRETHRINS | 0.01 | ppm | 1 | ND |
| AZOXYSTROBIN | 0.01 | ppm | 3 | ND | PYRIDABEN | 0.01 | ppm | 3 | ND |
| BIFENAZATE | 0.01 | ppm | 3 | ND | SPINETORAM | 0.01 | ppm | 3 | ND |
| BIFENTHRIN | 0.01 | ppm | 0.5 | ND | SPIROMESIFEN | 0.01 | ppm | 3 | ND |
| BOSCALID | 0.01 | ppm | 3 | ND | SPIROTETRAMAT | 0.01 | ppm | 3 | ND |
| CARBARYL | 0.01 | ppm | 0.5 | ND | SPIROXAMINE | 0.01 | ppm | 0.1 | ND |
| CARBOFURAN | 0.01 | ppm | 0.1 | ND | TEBUCONAZOLE | 0.01 | ppm | 1 | ND |
| CHLORANTRANILIPROLE | 0.01 | ppm | 3 | ND | THIACLOPRID | 0.01 | ppm | 0.1 | ND |
| CHLORMEQUAT CHLORIDE | 0.01 | ppm | 3 | ND | THIAMETHOXAM | 0.01 | ppm | 1 | ND |
| CHLORPYRIFOS | 0.01 | ppm | 0.1 | ND | TOTAL SPINOSAD | 0.01 | ppm | 3 | ND |
| CLOFENTEZINE | 0.01 | ppm | 0.5 | ND | TRIFLOXYSTROBIN | 0.01 | ppm | 3 | ND |
| COUMAPHOS | 0.01 | ppm | 0.1 | ND | | | | | |
| CYPERMETHRIN | 0.01 | ppm | 1 | ND | | | | | |
| DAMINOZIDE | 0.01 | ppm | 0.1 | 0.087 | | | | | |
| DIAZANON | 0.01 | ppm | 0.2 | ND | | | | | |
| DICHLORVOS | 0.01 | ppm | 0.1 | ND | | | | | |
| DIMETHOATE | 0.01 | ppm | 0.1 | ND | | | | | |
| DIMETHOMORPH | 0.01 | ppm | 3 | ND | | | | | |
| ETHOPROPHOS | 0.01 | ppm | 0.1 | ND | | | | | |
| ETOFENPROX | 0.01 | ppm | 0.1 | ND | | | | | |
| ETOXAZOLE | 0.01 | ppm | 1.5 | ND | | | | | |
| FENHEXAMID | 0.01 | ppm | 3 | ND | | | | | |
| FENOXYCARB | 0.01 | ppm | 0.1 | ND | | | | | |
| FENPYROXIMATE | 0.01 | ppm | 2 | ND | | | | | |
| FIPRONIL | 0.01 | ppm | 0.1 | ND | | | | | |
| FLONICAMID | 0.01 | ppm | 2 | ND | | | | | |
| FLUDIOXONIL | 0.01 | ppm | 3 | ND | | | | | |
| HEXYTHIAZOX | 0.01 | ppm | 2 | ND | | | | | |
| IMAZALIL | 0.01 | ppm | 0.1 | ND | | | | | |
| IMIDACLOPRID | 0.01 | ppm | 3 | ND | | | | | |
| KRESOXIM-METHYL | 0.01 | ppm | 1 | ND | | | | | |
| MALATHION | 0.01 | ppm | 2 | ND | | | | | |
| METALAXYL | 0.01 | ppm | 3 | ND | | | | | |
| METHIOCARB | 0.01 | ppm | 0.1 | ND | | | | | |
| METHOMYL | 0.01 | ppm | 0.1 | ND | | | | | |
| MEVINPHOS | 0.01 | ppm | 0.1 | ND | | | | | |
| MYCLOBUTANIL | 0.01 | ppm | 3 | ND | | | | | |
| NALED | 0.01 | ppm | 0.5 | ND | | | | | |
| OXAMYL | 0.01 | ppm | 0.5 | ND | | | | | |
| PACLOBUTRAZOL | 0.01 | ppm | 0.1 | ND | | | | | |
| PERMETHRINS | 0.01 | ppm | 1 | ND | | | | | |
| PHOSMET | 0.01 | ppm | 0.2 | ND | | | | | |

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Sue Ferguson
Lab Director
State License # n/a
ISO Accreditation #
17025:2017

Sue Ferguson
Signature

05/24/21
Signed On



Certificate of Analysis

PASSED
Roman Empire Farms

 662 Salt Springville Rd.,
 Fort Plain, NY, 13339

Telephone: -
Email: adam@romanempirefarms.com

Sample : KN10519004-001
Harvest/LOT ID: 21130-001
Batch# : 21130-001
Sampled : 05/17/21
Ordered : 05/17/21
Sample Size Received : 30
Total Weight/Volume : N/A
Completed : 05/24/21 Expires: 05/24/22
Sample Method : SOP Client Method

Page 3 of 4

| | | |
|--|--------------------------|---------------|
|  | Residual Solvents | PASSED |
|--|--------------------------|---------------|

| Solvent | LOD | Units | Action Level (PPM) | Pass/Fail | Result |
|--|------|-------|--------------------|-----------|--------|
| PROPANE | 500 | ppm | 2100 | PASS | ND |
| BUTANES (N-BUTANE) | 500 | ppm | 2000 | PASS | ND |
| METHANOL | 25 | ppm | 3000 | PASS | ND |
| ETHYLENE OXIDE | 0.5 | ppm | 5 | PASS | ND |
| PENTANES (N-PENTANE) | 75 | ppm | 5000 | PASS | ND |
| ETHANOL | 500 | ppm | 5000 | PASS | ND |
| ETHYL ETHER | 50 | ppm | 5000 | PASS | ND |
| 1,1-DICHLOROETHENE | 0.8 | ppm | 8 | PASS | ND |
| ACETONE | 75 | ppm | 5000 | PASS | ND |
| 2-PROPANOL | 50 | ppm | 500 | PASS | ND |
| ACETONITRILE | 6 | ppm | 410 | PASS | ND |
| DICHLOROMETHANE | 12.5 | ppm | 600 | PASS | ND |
| N-HEXANE | 25 | ppm | 290 | PASS | ND |
| ETHYL ACETATE | 40 | ppm | 5000 | PASS | ND |
| CHLOROFORM | 0.2 | ppm | 60 | PASS | ND |
| BENZENE | 0.1 | ppm | 2 | PASS | ND |
| 1,2-DICHLOROETHANE | 0.2 | ppm | 5 | PASS | ND |
| HEPTANE | 500 | ppm | 5000 | PASS | ND |
| TRICHLOROETHYLENE | 2.5 | ppm | 80 | PASS | ND |
| TOLUENE | 15 | ppm | 890 | PASS | ND |
| TOTAL XYLENES - M, P & O - DIMETHYLBENZENE | 15 | ppm | | PASS | ND |

| | | |
|---|--------------------------|---------------|
|  | Residual Solvents | PASSED |
|---|--------------------------|---------------|

| | | | |
|---------------------------|---------------------------|---|----------------------------|
| Analyzed by 138 | Weight 0.02247g | Extraction date 05/19/21 01:05:41 | Extracted By 138 |
|---------------------------|---------------------------|---|----------------------------|

Analysis Method -SOP.T.40.032
Analytical Batch -KN000891SOL Reviewed On - 05/20/21 15:25:18
Instrument Used : E-SHI-106 Residual Solvents
Running On : 05/20/21 09:11:48
Batch Date : 05/19/21 10:36:19

| | | |
|----------------|-----------------|--------------------|
| Reagent | Dilution | Consums. ID |
| | | 1065518282V1393 |

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). Analytes ISO pending. *Based on FL action limits.



Certificate of Analysis

PASSED

Roman Empire Farms

662 Salt Springville Rd.,
Fort Plain, NY, 13339

Telephone: -

Email: adam@romanempirefarms.com

Sample : KN10519004-001

Harvest/LOT ID: 21130-001

Batch# : 21130-001

Sampled : 05/17/21

Ordered : 05/17/21

Sample Size Received : 30

Total Weight/Volume : N/A

Completed : 05/24/21 Expires: 05/24/22

Sample Method : SOP Client Method

Page 4 of 4

| | | |
|--|-------------------|---------------|
|  | Microbials | PASSED |
|--|-------------------|---------------|

| Analyte | LOD | Result |
|-------------------------------|-----|------------------------|
| ESCHERICHIA_COLI_SHIGELLA_SPP | | not present in 1 gram. |
| SALMONELLA_SPECIFIC_GENE | | not present in 1 gram. |
| ASPERGILLUS_FLAVUS | | not present in 1 gram. |
| ASPERGILLUS_FUMIGATUS | | not present in 1 gram. |
| ASPERGILLUS_NIGER | | not present in 1 gram. |
| ASPERGILLUS_TERREUS | | not present in 1 gram. |

Analysis Method -SOP.T.40.043

Analytical Batch -KN000895MIC Batch Date : 05/20/21

Instrument Used : Micro E-HEW-069

Running On : 05/20/21

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|---------|-----------------|--------------|
| 142 | 1.0004g | NA | NA |

Reagent

042321.01
041621.04
112020.04

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

| | | |
|---|-------------------|---------------|
|  | Mycotoxins | PASSED |
|---|-------------------|---------------|

| Analyte | LOD | Units | Result | Action Level (PPM) |
|------------------|-------|-------|--------|--------------------|
| AFLATOXIN G2 | 0.002 | ppm | ND | 0.02 |
| AFLATOXIN G1 | 0.002 | ppm | ND | 0.02 |
| AFLATOXIN B2 | 0.002 | ppm | ND | 0.02 |
| AFLATOXIN B1 | 0.002 | ppm | ND | 0.02 |
| OCHRATOXIN A+ | 0.002 | ppm | ND | 0.02 |
| TOTAL MYCOTOXINS | 0.002 | ppm | ND | |

Analysis Method -SOP.T.30.060, SOP.T.40.060

Analytical Batch -KN000893MYC | Reviewed On - 05/21/21 14:54:32

Instrument Used : E-SHI-125 Mycotoxins

Running On : 05/19/21 16:37:40

Batch Date : 05/19/21 11:20:31

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|---------|-------------------|--------------|
| 143 | 1.0043g | 05/19/21 04:05:31 | 143 |

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T.40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg. Analytes ISO pending. *Based on FL action limits.

| | | |
|---|---------------------|---------------|
|  | Heavy Metals | PASSED |
|---|---------------------|---------------|

| Reagent | Dilution | Consums. ID |
|------------|----------|--------------|
| 040521.R20 | 50 | 7226/0030021 |
| 040521.R04 | | 210117060 |
| 050621.R21 | | |

| Metal | LOD | Unit | Result | Action Level (PPM) |
|------------|------|------|--------|--------------------|
| ARSENIC-AS | 0.02 | ppm | ND | 1.5 |
| CADMIUM-CD | 0.02 | ppm | ND | 0.5 |
| MERCURY-HG | 0.02 | ppm | ND | 3 |
| LEAD-PB | 0.02 | ppm | ND | 0.5 |

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|---------|-------------------|--------------|
| 12 | 0.2554g | 05/20/21 05:05:58 | 12 |

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -KN000899HEA | Reviewed On - 05/21/21 10:02:05

Instrument Used : Metals ICP/MS

Running On :

Batch Date : 05/20/21 09:58:31

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. Analytes ISO Pending. *Based on FL action limits.