



# Certificate of Analysis

Sample:KN10511002-002

Harvest/Lot ID: 21120-003

Seed to Sale# N/A

Batch Date: N/A

Batch#: 21120-003

Sample Size Received: 30

Total Weight/Volume: N/A

Retail Product Size: 30 gram

Ordered : 05/06/21

sampled : 05/06/21

Completed: 05/13/21 Expires: 05/13/22

Sampling Method: SOP Client Method

**PASSED**

Page 1 of 4

Jul 21, 2021 | Roman Empire Farms

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



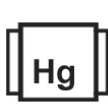
## PRODUCT IMAGE



## 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  
**0.156%**



Total CBD  
**4.735%**



Total Cannabinoids  
**5.289%**

| CBDV | CBDA   | CBGA   | CBG    | CBD    | THCV    | CBN    | D9-THC | D8-THC | CBC    | THCA   |
|------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| %    | 0.0140 | 0.0320 | <0.010 | 0.1660 | 4.7070  | <0.010 | 0.1560 | ND     | 0.2120 | <0.010 |
| mg/g | 0.1400 | 0.3200 | <0.010 | 1.6600 | 47.0700 | <0.010 | 1.5600 | ND     | 2.1200 | <0.010 |
| LOD  | 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                                    | 0.5292g                         | NA              | NA           |
| Analyte                                | LOD                             | Result          |              |
| Filtration and Foreign Material        | 0.3                             | ND              |              |
| Analysis Method -SOP.T.40.013          | Batch Date : 05/11/21 14:02:32  |                 |              |
| Analytical Batch -KN000861FIL          | Reviewed On - 05/11/21 14:13:08 |                 |              |
| 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   | 0.2135g | 05/11/21 11:05:15 | 113                             |
| 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 -KN000853POT Instrument Used : HPLC E-SHI-008  |         | Running On :      | Reviewed On - 05/11/21 12:59:18 |
|   |         |                   | Batch Date : 05/10/21 14:01:16  |

| Reagent    | Dilution | Consums. ID  |
|------------|----------|--------------|
| 120320.R02 | 40       | 94789291.217 |
| 050521.R03 |          | 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.

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Sue Ferguson  
Lab Director

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

*Sue Ferguson*  
Signature

05/13/21

Signed On



# Certificate of Analysis

**PASSED**

Roman Empire Farms

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

Telephone: -

Email: adam@romanempirefarms.com

Sample : KN10511002-002

Harvest/LOT ID: 21120-003

Batch# : 21120-003

Sampled : 05/06/21

Ordered : 05/06/21

Sample Size Received : 30

Total Weight/Volume : N/A


Completed : 05/13/21 Expires: 05/13/22

Sample Method : SOP Client Method

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

| 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          | ND     |                    |      |       |              |        |
| 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     |                    |      |       |              |        |



Pesticides

PASSED

|   |                                      |   |  |
|---|--------------------------------------|---|--|
| <div>Analyzed by</div> <div>143</div> <div>Analysis Method - SOP.T.30.060, SOP.T.40.060 ,<br/>Analytical Batch - KN000867PES</div> <div>Instrument Used : E-SHI-125 Pesticides<br/>Running On : 05/12/21 18:47:33</div> | <div>Weight</div> <div>1.0088g</div> | <div>Extraction date</div> <div>05/12/21 02:05:52</div>     | <div>Extracted By</div> <div>143</div> <div>Reviewed On- 05/11/21<br/>14:13:08</div> <div>Batch Date : 05/12/21 14:52:05</div> |
| <div>Reagent</div> <div>042021.R01<br/>042321.R03<br/>051021.R01<br/>051021.R02</div>   | <div>Dilution</div> <div>10</div>    | <div>Consums. ID</div> <div>P7364369<br/>94789291.217</div> |  |

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS).

Analytes ISO pending. \*Based on FL action limits. \*

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**Sue Ferguson**

Lab Director

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



Signature

05/13/21

Signed On



# Certificate of Analysis

**PASSED**
**Roman Empire Farms**

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

**Telephone:** -

**Email:** adam@romanempirefarms.com

**Sample :** KN10511002-002

**Harvest/LOT ID:** 21120-003

**Batch# :** 21120-003

**Sampled :** 05/06/21

**Ordered :** 05/06/21

**Sample Size Received :** 30

**Total Weight/Volume :** N/A

**Completed :** 05/13/21 **Expires:** 05/13/22

**Sample Method :** SOP Client Method

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|  |                          |               |
|--|--------------------------|---------------|
|  | <b>Residual Solvents</b> | <b>PASSED</b> |
|--|--------------------------|---------------|

| 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     |

|   |                          |               |
|---|--------------------------|---------------|
|  | <b>Residual Solvents</b> | <b>PASSED</b> |
|---|--------------------------|---------------|

|                           |                           |   |                            |
|---------------------------|---------------------------|---|----------------------------|
| <b>Analyzed by</b><br>138 | <b>Weight</b><br>0.02255g | <b>Extraction date</b><br>05/12/21 02:05:50 | <b>Extracted By</b><br>138 |
|---------------------------|---------------------------|---|----------------------------|

**Analysis Method -SOP.T.40.032**
**Analytical Batch -KN000858SOL** **Reviewed On - 05/13/21 17:00:21**
**Instrument Used : E-SHI-106 Residual Solvents**
**Running On : 05/11/21 14:57:27**
**Batch Date : 05/11/21 10:24:25**

|                |                 |                    |
|----------------|-----------------|--------------------|
| <b>Reagent</b> | <b>Dilution</b> | <b>Consums. ID</b> |
|                |                 | 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 : KN10511002-002

Harvest/LOT ID: 21120-003

Batch# : 21120-003

Sampled : 05/06/21

Ordered : 05/06/21

Sample Size Received : 30

Total Weight/Volume : N/A

Completed : 05/13/21 Expires: 05/13/22

Sample Method : SOP Client Method

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|  |                   |               |
|--|-------------------|---------------|
|  | <b>Microbials</b> | <b>PASSED</b> |
|--|-------------------|---------------|

| 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 -KN000854MIC Batch Date : 05/11/21

Instrument Used : Micro E-HEW-069

Running On : 05/11/21

| Analyzed by | Weight  | Extraction date | Extracted By |
|-------------|---------|-----------------|--------------|
| 142         | 0.9888g | NA              | NA           |

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.

|   |                   |               |
|---|-------------------|---------------|
|  | <b>Mycotoxins</b> | <b>PASSED</b> |
|---|-------------------|---------------|

| 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 -KN000868MYC | Reviewed On - 05/13/21 09:54:49

Instrument Used : E-SHI-125 Mycotoxins

Running On : 05/12/21 18:47:43

Batch Date : 05/12/21 14:52:12

| Analyzed by | Weight  | Extraction date   | Extracted By |
|-------------|---------|-------------------|--------------|
| 143         | 1.0088g | 05/13/21 09:05:14 | 143          |

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 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.

|   |                     |               |
|---|---------------------|---------------|
|  | <b>Heavy Metals</b> | <b>PASSED</b> |
|---|---------------------|---------------|

| Reagent    | Dilution | Consums. ID  |
|------------|----------|--------------|
| 040521.R20 | 50       | 7285/0030023 |
| 040521.R04 |          | 210117060    |

| 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          | 0.2651g | 05/11/21 03:05:46 | 12           |

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

Analytical Batch -KN000859HEA | Reviewed On - 05/11/21 17:00:07

Instrument Used : Metals ICP/MS

Running On :

Batch Date : 05/11/21 11:36:40

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.