



## CERTIFICATE OF ANALYSIS

|                                       |                                   |                              |         |
|---------------------------------------|-----------------------------------|------------------------------|---------|
| <b>CUSTOMER:</b>                      | HOLUS                             | <b>SAMPLE NUMBER:</b>        | N/A     |
| <b>PRODUCT NAME:</b>                  | FACE SERUM                        | <b>CERTIFICATION DATE:</b>   | 06MAR20 |
| <b>PACKAGE SIZE:</b>                  | 10 ML                             | <b>MANUFACTURE DATE:</b>     |         |
| <b>LOT NUMBER:</b>                    | 19979                             | <b>RECERTIFICATION DATE:</b> | N/A     |
| <b>DESCRIPTION:</b>                   | FACE SERUM WITH CBD               |                              |         |
| <b>EXPIRATION DATE:</b>               | NOVEMBER 2022                     |                              |         |
| <b>STORAGE CONDITIONS:</b>            | KEEP AWAY FROM EXPOSURE TO LIGHT. |                              |         |
| <b>STATE/COUNTRY OF ORIGIN(HEMP):</b> | WISCONSIN, USA                    |                              |         |

| POTENCY BY HPLC*          |             |             |
|---------------------------|-------------|-------------|
| CANNABINOID NAME          | % POTENCY   | CONC. mg/g  |
| CANNABIDIOLIC ACID (CBDa) | ND          | 0.00        |
| CANNABIDIOL (CBD)         | 1.14        | 11.4        |
| <b>TOTAL CBD</b>          | <b>1.14</b> | <b>11.4</b> |
| <b>TOTAL THC</b>          | <b>ND</b>   | <b>0.00</b> |

| TEST DESCRIPTION        | SPECIFICATION              | RESULTS      | STATUS |
|-------------------------|----------------------------|--------------|--------|
| <b>ASSAY ( BY HPLC)</b> | TOTAL CANNABIDIOL          | AS REPORTED  | PASS   |
| APPEARANCE              | CLEAR TO OPAQUE            | AS SPECIFIED | PASS   |
| SOLUBILITY              | SPARINGLY SOLUBLE IN WATER | N/A          | N/A    |
| ORGANOLEPTIC            | MILD SMELL                 | AS SPECIFIED | PASS   |

| PESTICIDES BY LCMS/MS |              |                    |           |        |                 |              |                    |           |        |
|-----------------------|--------------|--------------------|-----------|--------|-----------------|--------------|--------------------|-----------|--------|
| ANALYTE               | Result (PPB) | ACTION LEVEL (PPB) | LOQ (PPB) | Status | ANALYTE         | Result (PPB) | ACTION LEVEL (PPB) | LOQ (PPB) | Status |
| ABAMECTIN             | <LOQ         | 0.500              | 0.100     | PASS   | IMAZALIL        | <LOQ         | 0.200              | 0.100     | PASS   |
| ACEPHATE              | <LOQ         | 0.400              | 0.100     | PASS   | IMIDACLOPRID    | <LOQ         | 0.400              | 0.100     | PASS   |
| ACEQUINOCYL           | <LOQ         | 2.000              | 0.750     | PASS   | KRESOXIM METHYL | <LOQ         | 0.400              | 0.100     | PASS   |

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| PESTICIDES BY LCMS/MS |              |                    |           |        |                   |              |                    |           |        |
|-----------------------|--------------|--------------------|-----------|--------|-------------------|--------------|--------------------|-----------|--------|
| ANALYTE               | Result (PPB) | ACTION LEVEL (PPB) | LOQ (PPB) | Status | ANALYTE           | Result (PPB) | ACTION LEVEL (PPB) | LOQ (PPB) | Status |
| ALDICARB              | <LOQ         | 0.400              | 0.100     | PASS   | METALAXYL         | <LOQ         | 0.200              | 0.100     | PASS   |
| AZOXYSTROBIN          | <LOQ         | 0.200              | 0.100     | PASS   | METHIOCARB        | <LOQ         | 0.200              | 0.100     | PASS   |
| BOSCALID              | <LOQ         | 0.200              | 0.100     | PASS   | METHOMYL          | <LOQ         | 0.400              | 0.100     | PASS   |
| BIFENAZATE            | <LOQ         | 0.400              | 0.100     | PASS   | MGK-264           | <LOQ         | 0.200              | 0.100     | PASS   |
| BIFENTHRIN            | <LOQ         | 0.200              | 0.100     | PASS   | MYCLOBUTANIL      | <LOQ         | 0.200              | 0.100     | PASS   |
| CARBARYL              | <LOQ         | 0.200              | 0.100     | PASS   | NALED             | <LOQ         | 0.500              | 0.100     | PASS   |
| CARBOFURAN            | <LOQ         | 0.200              | 0.100     | PASS   | OXAMYL            | <LOQ         | 1.000              | 0.100     | PASS   |
| CHLORANTRANILIPROLE   | <LOQ         | 0.200              | 0.100     | PASS   | PACLOBUTRAZOL     | <LOQ         | 0.400              | 0.100     | PASS   |
| CHLORPYRIFOS          | <LOQ         | 0.200              | 0.100     | PASS   | PARATHION- METHYL | <LOQ         | 0.200              | 0.250     | PASS   |
| CLOFENTEZINE          | <LOQ         | 0.200              | 0.100     | PASS   | PERMETHRIN        | <LOQ         | 0.200              | 0.100     | PASS   |
| CYPERMETHRIN          | <LOQ         | 1.000              | 0.100     | PASS   | PHOSMET           | <LOQ         | 0.200              | 0.100     | PASS   |
| DAMINOZIDE            | <LOQ         | 1.000              | 0.100     | PASS   | PIPERONYLBUTOXIDE | <LOQ         | 2.000              | 0.100     | PASS   |
| DIAZINON              | <LOQ         | 0.200              | 0.100     | PASS   | PRALLETHRIN       | <LOQ         | 0.200              | 0.100     | PASS   |
| DICHLORVOS            | <LOQ         | 0.100              | 0.100     | PASS   | PROPICONAZOLE     | <LOQ         | 0.400              | 0.100     | PASS   |
| DIMETHOATE            | <LOQ         | 0.200              | 0.100     | PASS   | PROPOXUR          | <LOQ         | 0.200              | 0.100     | PASS   |
| ETHOPROPHOS           | <LOQ         | 0.200              | 0.100     | PASS   | PYRETHRINS        | <LOQ         | 1.000              | 0.100     | PASS   |
| ETOFENPROX            | <LOQ         | 0.400              | 0.100     | PASS   | PYRIDABEN         | <LOQ         | 0.200              | 0.100     | PASS   |
| ETOXAZOLE             | <LOQ         | 0.200              | 0.100     | PASS   | SPINOSYN A        | <LOQ         | 0.200              | 0.100     | PASS   |
| FENOXYCARB            | <LOQ         | 0.200              | 0.100     | PASS   | SPINOSYN D        | <LOQ         | 0.200              | 0.100     | PASS   |
| FIPRONIL              | <LOQ         | 0.400              | 0.100     | PASS   | SPIROMESIFEN      | <LOQ         | 0.200              | 0.100     | PASS   |
| FLONICAMID            | <LOQ         | 1.000              | 0.100     | PASS   | TEBUCONAZOLE      | <LOQ         | 0.400              | 0.100     | PASS   |
| FLUDIOXONIL           | <LOQ         | 0.400              | 0.100     | PASS   | THIACLOPRID       | <LOQ         | 0.200              | 0.100     | PASS   |
| HEXYTHIAZOX           | <LOQ         | 1.000              | 0.100     | PASS   | THIAMETHOXAM      | <LOQ         | 0.200              | 0.100     | PASS   |
| SPIROTETRAMAT         | <LOQ         | 0.200              | 0.100     | PASS   | TRIFLOXYSTROBIN   | <LOQ         | 0.200              | 0.100     | PASS   |
| SPIROXAMINE           | <LOQ         | 0.400              | 0.100     | PASS   |                   |              |                    |           |        |



| HEAVY METALS BY ICP-MS |              |                    |           |        |
|------------------------|--------------|--------------------|-----------|--------|
| ANALYTE                | RESULT (PPB) | ACTION LEVEL (PPB) | LOQ (PPB) | STATUS |
| ARSENIC (As)           | <LOQ         | 500.0              | 100.0     | PASS   |
| CADMIUM (Cd)           | <LOQ         | 500.0              | 100.0     | PASS   |
| LEAD (Pb)              | <LOQ         | 500.0              | 100.0     | PASS   |
| MERCURY (Hg)           | <LOQ         | 500.0              | 100.0     | PASS   |

| MYCOTOXINS BY LCMS/MS |              |                    |           |        |
|-----------------------|--------------|--------------------|-----------|--------|
| ANALYTE               | RESULT (PPB) | ACTION LEVEL (PPB) | LOQ (PPB) | STATUS |
| AFLATOXIN B1          | <LOQ         |                    | 6.0       | PASS   |
| AFLATOXIN B2          | <LOQ         |                    | 6.0       | PASS   |
| AFLATOXIN G1          | <LOQ         |                    | 6.0       | PASS   |
| AFLATOXIN G2          | <LOQ         |                    | 6.0       | PASS   |
| AFLATOXIN TOTAL       | <LOQ         | 20.0               | 6.0       | PASS   |
| OCHRATOXIN A          | <LOQ         | 20.0               | 12.0      | PASS   |

| MICROBIOLOGY BY PETRIFILM* |            |          |        |
|----------------------------|------------|----------|--------|
| ANALYTE                    |            | RESULTS  | STATUS |
| TOTAL AEROBIC COUNT        | <10 CFU/G  | <10CFU/G | PASS   |
| TOTAL YEAST AND MOLD       | <10 CFU/G  | <10CFU/G | PASS   |
| E. COLI                    | ABSENT/10G | ABSENT   | PASS   |
| SALMONELLA SPP.            | ABSENT/10G | ABSENT   | PASS   |



| RESIDUAL SOLVENTS BY GC-HEADSPACE* |                     |               |        |
|------------------------------------|---------------------|---------------|--------|
| ANALYTE                            | SPECIFICATION (PPM) | RESULTS (PPM) | STATUS |
| METHANOL                           | <3000               | ND            | PASS   |
| PENTANE                            | <5000               | ND            | PASS   |
| ETHANOL                            | <5000               | ND            | PASS   |
| ACETONE                            | <5000               | ND            | PASS   |
| N-HEXANE                           | <290                | ND            | PASS   |
| ETHYL ACETATE                      | <5000               | ND            | PASS   |
| HEPTANE                            | <5000               | ND            | PASS   |

## QUALITY APPROVED

DATE: 09MAR20

QUALITY MANAGER, NANCY CARTER

*Nancy H. Carter*

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\*TESTING HAS A DEFINED "MEASUREMENT OF UNCERTAINTY" WHICH IS THE PARAMETER, ASSOCIATED WITH THE RESULT OF A MEASUREMENT, THAT CHARACTERIZES THE DISPERSION OF THE VALUES THAT COULD REASONABLY BE ATTRIBUTED TO THE PARTICULAR QUANTITY SUBJECT TO MEASUREMENT. THE MEASUREMENT OF UNCERTAINTY IS SIMILAR TO A MARGIN OF ERROR. WHEN THE MEASUREMENT OF UNCERTAINTY, NORMALLY EXPRESSED AS A +/- WITH A NUMBER, (E.G., +/- 0.05) IS COMBINED WITH THE REPORTED MEASUREMENT, IT PRODUCES A RANGE AND THE ACTUAL MEASUREMENT HAS A KNOWN PROBABILITY OF FALLING WITHIN THAT RANGE (TYPICALLY 95%). THIS DEFINITION IS BASED ON THE DEFINITION OF "UNCERTAINTY (OF MEASUREMENT)" IN SECTION 2.2.3 OF THE JOINT COMMITTEE FOR GUIDES IN METROLOGY 100:800, EVALUATION OF MEASUREMENT DATA—GUIDE TO THE EXPRESSION OF UNCERTAINTY IN MEASUREMENT (JCGM GUIDE). NIST TECHNICAL NOTE 1297, GUIDELINES FOR EVALUATING AND EXPRESSING THE UNCERTAINTY OF NIST MEASUREMENT RESULTS (TN 1297), IS BASED ON THE JCGM GUIDE. USDA ALSO RELIED ON THE EURACHEM/CO-OPERATION ON INTERNATIONAL TRACEABILITY IN ANALYTICAL CHEMISTRY'S "GUIDE ON USE OF UNCERTAINTY INFORMATION IN COMPLIANCE ASSESSMENT, FIRST EDITION 2007."

ND=<LOQ; TOTAL CBD= (CBDA\*0.877)+CBD; TOTAL THC= (THCA\*0.877)+THC; PPM= PARTS PER MILLION;

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PPB= PARTS PER BILLION

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