

# CERTIFICATE OF ANALYSIS



## IDENTIFICATION:

**PRODUCT NAME:** Grape  
**PRODUCT DESIGNATION:** Proprietary Terpene Blend – Terpene Flavor Profile  
**TT PRODUCT ID:** TTF-GRAP  
**LOT #:** 22081705  
**INTENDED FOR USE BY:** August 2023  
**CAS #:** Mixture  
**EC #:** Mixture  
**MANUFACTURING DATE:** 8/17/2022

| PARAMETER:                | SPECIFICATION:             | RESULT:                    |
|---------------------------|----------------------------|----------------------------|
| <b>APPEARANCE:</b>        | Clear, light yellow liquid | Clear, light yellow liquid |
| <b>ODOR:</b>              | Grape, Berry, Fruit, Sweet | Grape, Berry, Fruit, Sweet |
| <b>RESIDUAL SOLVENTS:</b> | PASSES TEST                | PASSES TEST                |
| <b>PESTICIDES:</b>        | PASSES TEST                | PASSES TEST                |
| <b>HEAVY METALS:</b>      | PASSES TEST                | PASSES TEST                |

## Additional Product Information:

**Storage Conditions:** Stable when stored in its original container securely tightened and away from heat, open flames, sunlight, combustible materials and hot surfaces. Store in a cool, dry, and well-ventilated place.

## TRACE CONTAMINANT LEVELS:

Test Type: Heavy Metals

| Contaminant Name | Max Allowed (ppm) | Test Result | Contaminant Name | Max Allowed (ppm) | Test Result |
|------------------|-------------------|-------------|------------------|-------------------|-------------|
| Arsenic          | 0.2               | <0.0390 ppm | Cadmium          | 0.2               | <0.0390 ppm |
| Lead             | 0.5               | <0.0471 ppm | Mercury          | 0.1               | <0.0195 ppm |

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Test Type: Pesticide

| Contaminant Name    | Max Allowed (ppm) | Test Result | Contaminant Name  | Max Allowed (ppm) | Test Result |
|---------------------|-------------------|-------------|-------------------|-------------------|-------------|
| Abamectin           | 0.07              | <0.070 ppm  | Acephate          | 0.05              | <0.020 ppm  |
| Acequinocyl         | 0.1               | <0.025 ppm  | Acetamiprid       | 0.05              | <0.050 ppm  |
| Aldicarb            | 0.1               | <0.100 ppm  | Azoxystrobin      | 0.01              | <0.010 ppm  |
| Allethrin           | 0.1               | <0.100 ppm  | Azadirachtin      | 0.5               | < 0.500 ppm |
| Bifenazate          | 0.01              | <0.010 ppm  | Bifenthrin        | 0.1               | <0.100 ppm  |
| Benzovindiflupyr    | 0.01              | <0.010 ppm  | Buprofezin        | 0.01              | <0.010 ppm  |
| Boscalid            | 0.01              | <0.010 ppm  | Captan            | 0.7               | <0.700 ppm  |
| Carbaryl            | 0.025             | <0.025 ppm  | Carbofuran        | 0.01              | <0.010 ppm  |
| Chlorantraniliprole | 0.2               | <0.010 ppm  | Chlordane         | 0.1               | <0.100 ppm  |
| Chlorfenapyr        | 0.1               | <0.100 ppm  | Chlorpyrifos      | 0.01              | <0.010 ppm  |
| Clofentezine        | 0.01              | <0.010 ppm  | Coumaphos         | 0.01              | <0.010 ppm  |
| Clothianidin        | 0.025             | <0.025 ppm  | Cyantraniliprole  | 0.01              | <0.010 ppm  |
| Cyfluthrin          | 0.4               | <0.400 ppm  | Cypermethrin      | 1                 | <0.300 ppm  |
| Cyprodinil          | 0.01              | <0.010 ppm  | Deltamethrin      | 0.5               | <0.500 ppm  |
| Daminozide          | 0.05              | <0.050 ppm  | DDVP (Dichlorvos) | 0.05              | <0.050 ppm  |
| Diazinon            | 0.1               | <0.010 ppm  | Dimethoate        | 0.01              | <0.010 ppm  |
| Dinotefuran         | 0.05              | <0.050 ppm  | Dodemorph         | 0.05              | <0.050 ppm  |
| Dimethomorph        | 2                 | <0.050 ppm  | Ethoprophos       | 0.01              | <0.010 ppm  |
| Etofenprox          | 0.01              | <0.010 ppm  | Etoxazole         | 0.1               | <0.010 ppm  |
| Endosulfan Sulfate  | 2.5               | <0.050 ppm  | Endosulfan Alpha  | 2.5               | <0.050 ppm  |
| Endosulfan Beta     | 2.5               | <0.050 ppm  | Etridiazole       | 0.15              | <0.050 ppm  |

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|                    |       |            |                         |       |            |
|--------------------|-------|------------|-------------------------|-------|------------|
| Fenhexamid         | 0.1   | <0.100 ppm | Fenoxycarb              | 0.01  | <0.010 ppm |
| Fenpyroximate      | 0.1   | <0.020 ppm | Fipronil                | 0.01  | <0.010 ppm |
| Fensulfotion       | 0.01  | <0.010 ppm | Fenthion                | 0.01  | <0.010 ppm |
| Fenvalerate        | 0.2   | <0.200 ppm | Fluopyram               | 0.01  | <0.010 ppm |
| Flonicamid         | 0.025 | <0.025 ppm | Fludioxonil             | 0.01  | <0.010 ppm |
| Hexythiazox        | 0.1   | <0.010 ppm | Imazalil                | 0.01  | <0.010 ppm |
| Imidacloprid       | 0.01  | <0.010 ppm | Kresoxim-methyl         | 0.1   | <0.010 ppm |
| Iprodione          | 0.5   | <0.500 ppm | Kinoprene               | 1.25  | <0.050 ppm |
| Malathion          | 0.01  | <0.010 ppm | Metalaxyl               | 0.01  | <0.010 ppm |
| Methiocarb         | 0.01  | <0.010 ppm | Methomyl                | 0.025 | <0.025 ppm |
| Methyl-Parathion   | 0.03  | <0.030 ppm | Mevinphos               | 0.025 | <0.025 ppm |
| Methoprene         | 1.0   | <1.00 ppm  | Myclobutanil            | 0.01  | <0.010 ppm |
| MGK-264            | 0.2   | <0.050 ppm | Oxamyl                  | 0.5   | <0.500 ppm |
| Naled              | 0.1   | <0.100 ppm | Pentachloronitrobenzene | 0.1   | <0.100 ppm |
| Novaluron          | 0.025 | <0.025 ppm | Phosmet                 | 0.05  | <0.010 ppm |
| Paclobutrazol      | 0.01  | <0.010 ppm | Primicarb               | 0.01  | <0.010 ppm |
| Permethrins        | 0.1   | <0.040 ppm | Prallethrin             | 0.1   | <0.050 ppm |
| Phenothrin         | 0.025 | <0.025 ppm | Propoxur                | 0.01  | <0.010 ppm |
| Piperonyl Butoxide | 1.25  | <0.200 ppm | Pyridaben               | 0.02  | <0.020 ppm |
| Propiconazole      | 0.1   | <0.010 ppm | Resmethrin              | 0.05  | <0.020 ppm |
| Pyrethrins         | 0.5   | <0.025 ppm | Spinosad                | 0.01  | <0.010 ppm |
| Pyraclostrobin     | 0.01  | <0.010 ppm | Spirotetramat           | 0.01  | <0.010 ppm |
| Spinetoram         | 0.01  | <0.010 ppm | Tebuconazole            | 0.01  | <0.010 ppm |

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|                    |      |            |                 |       |            |
|--------------------|------|------------|-----------------|-------|------------|
| Spirodiclofen      | 0.25 | <0.250 ppm | Teflubenzuron   | 0.025 | <0.025 ppm |
| Spiromesifen       | 0.03 | <0.030 ppm | Tetramethrin    | 0.05  | <0.050 ppm |
| Spiroxamine        | 0.01 | <0.010 ppm | Thiamethoxam    | 0.01  | <0.010 ppm |
| Tebufenozide       | 0.01 | <0.010 ppm | Trifloxystrobin | 0.01  | <0.010 ppm |
| Tetrachlorvinphos  | 0.01 | <0.010 ppm | Thiacloprid     | 0.01  | <0.010 ppm |
| Thiophanate-methyl | 0.03 | <0.030 ppm |                 |       |            |

## Test Type: Residual Solvent

| Contaminant Name                 | Max Allowed (ppm) | Test Result | Contaminant Name              | Max Allowed (ppm) | Test Result |
|----------------------------------|-------------------|-------------|-------------------------------|-------------------|-------------|
| 1-Butanol                        | 50                | <5 ppm      | 1-Pentanol                    | 5000              | <500 ppm    |
| 1,2-Dichloroethane               | 1                 | <1 ppm      | 1,4-Dioxane                   | 100               | <1 ppm      |
| 1,2-Dimethoxyethane              | 5                 | <1 ppm      | 1-Propanol                    | 250               | <1 ppm      |
| 2,2-Dimethylbutane               | 50                | <1 ppm      | 2-Propanol (IPA)              | 500               | <1 ppm      |
| 2,2-Dimethylpropane              | 750               | <1 ppm      | Total Residual Solvents       | 5000              | <5000 ppm   |
| 2,3-Dimethylbutane               | 50                | <1 ppm      | 3-Methyl-(1)-Butanol          | 500               | <500 ppm    |
| 2-Butanol                        | 100               | <1 ppm      | 2-Ethoxyethanol               | 5                 | <5 ppm      |
| 2-Methylpentane                  | 50                | <1 ppm      | 2-Methylbutane                | 600               | <1 ppm      |
| 3-Methylpentane                  | 50                | <1 ppm      | Acetone                       | 750               | 5.484 ppm   |
| Acetic Acid                      | 250               | <250 ppm    | N,N-Dimethylacetamide         | 10                | <7 ppm      |
| Acetonitrile                     | 60                | <1 ppm      | Anisole                       | 5000              | <500 ppm    |
| Benzene                          | 1                 | <1 ppm      | Butane                        | 500               | <1 ppm      |
| Butyl Acetate                    | 500               | <500 ppm    | Chloroform                    | 1                 | <1 ppm      |
| Cyclohexane                      | 300               | <1 ppm      | Ethanol                       | 1000              | 1.607 ppm   |
| Ethyl Acetate                    | 400               | <1 ppm      | Ethyl Benzene                 | 30                | <1 ppm      |
| Ethyl Ether                      | 500               | 4.489 ppm   | Ethyl Formate                 | 500               | <500 ppm    |
| Ethylene Glycol                  | 50                | <50 ppm     | Ethylene Oxide                | 1                 | <1 ppm      |
| Isobutanol (2-Methyl-1-Propanol) | 500               | <500 ppm    | Methyl Isobutyl Ketone        | 500               | <500 ppm    |
| Isopropyl Acetate                | 310               | <1 ppm      | Tert-Butylmethyl Ether (MTBE) | 500               | <500 ppm    |
| Methylene Chloride               | 1                 | <1 ppm      | Isobutyl Acetate              | 5000              | <500 ppm    |

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|                       |      |          |                           |      |           |
|-----------------------|------|----------|---------------------------|------|-----------|
| Methyl-t-butyl ether  | 5000 | <500 ppm | Methanol                  | 250  | 1.605 ppm |
| N,N-Dimethylformamide | 10   | <5 ppm   | Isopropylbenzene (Cumene) | 50   | <50 ppm   |
| n-Hexane              | 50   | <1 ppm   | Pyridine                  | 5    | <3 ppm    |
| o-Xylene              | 150  | <1 ppm   | Methyl Acetate            | 500  | <500 ppm  |
| Propyl Acetate        | 500  | <500 ppm | p- and m-Xylene           | 150  | <1 ppm    |
| Tetrahydrofuran       | 250  | <1 ppm   | Methylethylketone         | 300  | <1 ppm    |
| Toluene               | 150  | <1 ppm   | Propane                   | 1000 | <25 ppm   |
| Total Xylenes         | 150  | <150 ppm | Methylpropane             | 500  | <1 ppm    |
| Trichloroethylene     | 1    | <1 ppm   | Heptane                   | 500  | 1.978 ppm |
| Triethylamine         | 500  | <500 ppm | Pentane                   | 600  | <7 ppm    |

Quality Control performed by Forrest Verde-Green 8/18/2022

**Disclaimer:** This document does not relieve the purchaser from conducting their own tests in order to verify the suitability of this product for its application and to comply with all relevant legal requirements for any goods into which this product is incorporated. The limits in this certificate of analysis document may not be inclusive of all compound regulations in Alaska.