

CERTIFICATE OF ANALYSIS



IDENTIFICATION:

PRODUCT NAME: Beta Caryophyllene

PRODUCT DESIGNATION: Isolate

TT PRODUCT #: TTI-BCAR

LOT #: T106012

INTENDED FOR USE BY: April 2023

CAS #: 87-44-5

EC #: 201-746-1

| PARAMETER: | SPECIFICATION: | RESULT: |
|--------------------|---------------------------------|---------------------------------|
| APPEARANCE: | Colorless to pale yellow liquid | Colorless to pale yellow liquid |
| ODOR: | Woody, spicy, clove-like | Woody, spicy, clove-like |
| ASSAY: | 80.0-100.0 % | 91.3 % |

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:

Component: B-CARYOPHYLLENE, NATURAL

Test Type: Heavy Metals

| Contaminant Name | Max. Allowed (ppm) | Test Result | Contaminant Name | Max. Allowed (ppm) | Test Result |
|------------------|--------------------|----------------|------------------|--------------------|----------------|
| Arsenic | 0.2 | < 0.0479 mg/kg | Cadmium | 0.2 | < 0.0479 mg/kg |
| Lead | 0.5 | < 0.0479 mg/kg | Mercury | 0.1 | < 0.0239 mg/kg |

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Component: B-CARYOPHYLLENE, NATURAL

Test Type: Pesticide

| Contaminant Name | Max. Allowed (ppm) | Test Result | Contaminant Name | Max. Allowed (ppm) | Test Result |
|---------------------|--------------------|---------------|-------------------------|--------------------|---------------|
| Abamectin | 0.07 | < 0.070 mg/kg | Acephate | 0.1 | < 0.10 mg/kg |
| Acequinocyl | 0.1 | < 0.10 mg/kg | Acetamiprid | 0.1 | < 0.10 mg/kg |
| Aldicarb | 0.4 | < 0.10 mg/kg | Azoxystrobin | 0.02 | < 0.020 mg/kg |
| Bifenazate | 0.02 | < 0.020 mg/kg | Bifenthrin | 0.1 | < 0.10 mg/kg |
| Boscalid | 0.1 | < 0.10 mg/kg | Captan | 0.7 | < 0.70 mg/kg |
| Carbaryl | 0.2 | < 0.10 mg/kg | Carbofuran | 0.2 | < 0.10 mg/kg |
| Chlorantraniliprole | 0.2 | < 0.10 mg/kg | Chlordane | 0.1 | < 0.10 mg/kg |
| Chlorfenapyr | 0.2 | < 0.10 mg/kg | Chlorpyrifos | 0.2 | < 0.10 mg/kg |
| Clofentezine | 0.1 | < 0.10 mg/kg | Coumaphos | 0.1 | < 0.10 mg/kg |
| Cyfluthrin | 1 | < 0.50 mg/kg | Cypermethrin | 1 | < 0.50 mg/kg |
| Daminozide | 0.10 | < 0.10 mg/kg | DDVP (Dichlorvos) | 0.1 | < 0.10 mg/kg |
| Diazinon | 0.1 | < 0.10 mg/kg | Dimethoate | 0.2 | < 0.10 mg/kg |
| Dimethomorph | 2 | < 0.20 mg/kg | Ethoprophos | 0.2 | < 0.10 mg/kg |
| Etofenprox | 0.4 | < 0.10 mg/kg | Etoxazole | 0.1 | < 0.10 mg/kg |
| Fenhexamid | 0.1 | < 0.10 mg/kg | Fenoxycarb | 0.2 | < 0.10 mg/kg |
| Fenpyroximate | 0.1 | < 0.10 mg/kg | Fipronil | 0.4 | < 0.10 mg/kg |
| Flonicamid | 0.1 | < 0.10 mg/kg | Fludioxonil | 0.1 | < 0.10 mg/kg |
| Hexythiazox | 0.1 | < 0.10 mg/kg | Imazalil | 0.10 | < 0.10 mg/kg |
| Imidacloprid | 0.02 | < 0.020 mg/kg | Kresoxim-methyl | 0.1 | < 0.10 mg/kg |
| Malathion | 0.2 | < 0.10 mg/kg | Metalaxyl | 0.2 | < 0.10 mg/kg |
| Methiocarb | 0.2 | < 0.10 mg/kg | Methomyl | 0.4 | < 0.20 mg/kg |
| Methyl-Parathion | 0.2 | < 0.10 mg/kg | Mevinphos | 0.1 | < 0.10 mg/kg |
| MGK-264 | 0.2 | < 0.10 mg/kg | Myclobutanil | 0.04 | < 0.040 mg/kg |
| Naled | 0.2 | < 0.20 mg/kg | Oxamyl | 0.5 | < 0.50 mg/kg |
| Paclobutrazol | 0.10 | < 0.10 mg/kg | Pentachloronitrobenzene | 0.1 | < 0.10 mg/kg |
| Permethrins | 0.04 | < 0.040 mg/kg | Phosmet | 0.1 | < 0.10 mg/kg |
| Piperonyl Butoxide | 2 | < 0.50 mg/kg | Prallethrin | 0.1 | < 0.10 mg/kg |
| Propiconazole | 0.1 | < 0.10 mg/kg | Propoxur | 0.2 | < 0.10 mg/kg |
| Pyrethrins | 0.5 | < 0.50 mg/kg | Pyridaben | 0.1 | < 0.10 mg/kg |
| Spinetoram | 0.1 | < 0.10 mg/kg | Spinosad | 0.06 | < 0.060 mg/kg |
| Spiromesifen | 0.03 | < 0.030 mg/kg | Spirotetramat | 0.02 | < 0.020 mg/kg |
| Spiroxamine | 0.4 | < 0.10 mg/kg | Tebuconazole | 0.01 | < 0.010 mg/kg |
| Thiacloprid | 0.2 | < 0.10 mg/kg | Thiamethoxam | 0.2 | < 0.10 mg/kg |
| Trifloxystrobin | 0.1 | < 0.10 mg/kg | | | |

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Component: B-Caryophyllene, Natural

Test Type: Residual Solvent

| Contaminant Name | Max. Allowed (ppm) | Test Result | Contaminant Name | Max. Allowed (ppm) | Test Result |
|-----------------------------|--------------------|-------------|-----------------------|--------------------|-------------|
| 1,2-Dichloroethane | 1.0 | < 1 ppm | 1,4-Dioxane | 380 | < 3 ppm |
| 1-Butanol | 5000 | < 10 ppm | 1-Pentanol | 5000 | < 25 ppm |
| 1-Propanol | 5000 | < 3 ppm | 2,2-Dimethylbutane | 50 | < 10 ppm |
| 2,3-Dimethylbutane | 50 | < 50 ppm | 2-Butanol | 5000 | < 5 ppm |
| 2-Butanone | 5000 | < 3 ppm | 2-Ethoxyethanol | 160 | < 50 ppm |
| 2-Methylbutane | 750 | < 5 ppm | 2-Methylpentane | 50 | < 5 ppm |
| 2-Methylpropane (Isobutane) | 800 | < 10 ppm | 2-Propanol (IPA) | 500 | 23 ppm |
| 3-Methylpentane | 50 | < 3 ppm | Acetone | 750 | < 5 ppm |
| Acetonitrile | 60 | < 5 ppm | Benzene | 1.0 | < 0.5 ppm |
| Butane | 500 | < 10 ppm | Chloroform | 1.0 | < 1 ppm |
| Cumene (Isopropyl Benzene) | 70 | < 1 ppm | Cyclohexane | 3880 | < 3 ppm |
| Dimethyl Sulfoxide (DMSO) | 5000 | < 400 ppm | Ethanol | 1000 | < 10 ppm |
| Ethyl Acetate | 400 | < 5 ppm | Ethyl Ether | 500 | < 1 ppm |
| Ethylbenzene | 150 | < 1 ppm | Ethylene Glycol | 620 | < 400 ppm |
| Ethylene Oxide | 1.0 | < 1 ppm | Heptane | 500 | < 3 ppm |
| Isopropyl Acetate | 60 | < 3 ppm | m-Xylene and p-Xylene | 150 | < 2 ppm |
| Methanol | 250 | < 3 ppm | Methylene Chloride | 1.0 | < 0.5 ppm |
| N,N-Dimethylacetamide | 880 | < 50 ppm | N,N-Dimethylformamide | 880 | < 50 ppm |
| n-Hexane | 50 | < 3 ppm | Naphtha | 400 | < 171 ppm |
| Neopentane | 750 | < 3 ppm | o-Xylene | 150 | < 3 ppm |
| Pentane | 750 | < 1 ppm | Petroleum Ether | 400 | < 171 ppm |
| Propane | 500 | < 50 ppm | Pyridine | 200 | < 25 ppm |
| Tetrahydrofuran | 720 | < 1 ppm | Toluene | 150 | < 1 ppm |
| Total Residual Solvents | 5000 | < 1249 ppm | Trichloroethylene | 1.0 | < 1 ppm |
| Xylenes | 150 | < 6 ppm | | | |

Branston Mefferd
Quality Control

Disclaimer: This Certificate of Analysis may contain results provided by contract laboratories external to True Terpenes. 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. Botanically derived and/or synthetic compounds found in this product may contain trace compounds which can potentially result in a slight variance between lots. True Terpenes certifies that this product is not derived from cannabis nor does it contain any cannabinoids or other cannabis-derived extracts.