COVALENT
CUSTOM CANNABINOIDS

Facility ID: 17178984546

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PRODUCT SPECIFICATION:

TCBGA250 - Pure CBGa Tincture (250 mg)

Description

Pure CBGa Tincture (250 mg) is an ingestible personal care finished product. Cannabinoids used in this product are extracted from Federally Compliant, USA Grown Industrial Hemp in accordance with the Nevada Department of Agriculture *State of Nevada Hemp Plan* and Nevada Revised Statutes (NRS) 557.

Cannabinoid Profile

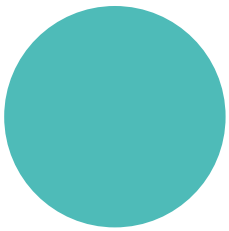
		Specification		Minimum		Maximum	
Cannabinoid	**LOQ (%)**	**Weight (%)**	**(mg/unit)**	**Weight (%)**	**(mg/unit)**	**Weight (%)**	**(mg/unit)**
THCA	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
Δ9-THC	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
Δ8-THC	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
THCV	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
CBDa	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
CBD	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
CBDV	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
CBN	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
CBGa	0.010	**0.845**	**250.00**	0.761	225.00	0.930	275.00
CBG	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
CBC	0.010	**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
MAX THC		**< LOQ**	**< LOQ**	< LOQ	< LOQ	< LOQ	< LOQ
MAX CBGa		**0.845**	**250.00**	0.761	225.00	0.930	275.00
TOTAL ACTIVE		**0.845**	**250.00**	0.761	225.00	0.930	275.00

LOQ = Limit of Quantitation | Max THC = THCa* 0.877 + Δ9-THC + Δ8-THC | Unit = 29.573 g (1 oz)

General Information

Item Code:	TCBGA250
Country if Origin:	USA
Organic Certification:	Not Certified
Cannabinoid Concentrate(s):	Cannabigerolic Acid (CBGa) Isolate
Carrier Oil:	Coconut Oil (MCT) or Organic Hemp Seed Oil
Flavor Agents:	Oil soluble natural flavors
Container:	30 mL amber glass Boston Round bottle
Closure:	20-400 black ring dropper with metered pipette
Typical Batch ID (format):	IGA220301T250N

Cannabinoid Distribution



THCA
Δ9-THC
Δ8-THC
THCV
CBDa
CBD
CBDV
CBN
CBGa (100%)
CBG
CBC

Last Revised: 3/2/2022

APPROVAL: Fred Palmer, *Regulatory Compliance Manager*

DOC NO: TDSTCBGA250.01

Application and Use	Consumer product formulation finished product manufactured in accordance with all applicable laws and regulations.
Composition	0.84% Cannabigerolic Acid (CBGa) isolate by weight, 99.16% carrier oil and flavoring agents (if applicable)
Storage and Shelf Life	24 months from date of production when stored in original packaging in a cool, dark and dry location.
Irradiation, ETO, and Sewage Sludge	No ionizing radiation, ethylene oxide, sewage, or sludge is used in the manufacturing process.
Residual Solvents	No solvents are used in the manufacturing process. Any residual solvents in cannabinoid concentrationshave been reduced by the manufacturing process to levels below those defined in (NRS) 557.
Pesticides	No pesticides are used in the manufacturing process. All materials are tested for pesticide residues and meet the specifications of (NRS) 557.
Food Allergens	No known food allergens are used in the manufacturing process.
GRAS Status	This product is generally regarded as safe.
Appearance	Clear low viscosity liquid

Cannabinoids Assay

Cannabinoid Potency - Testing Methods: *HPLC, UPLC, SFC*		
Cannabidiol (CBD)	LOQ: 0.010%	Specification: <LOQ%
Tetrahydrocannabinol (Δ9-THC)	LOQ: 0.010%	Specification: <LOQ%
Tetrahydrocannabinolic Acid (THCa)	LOQ: 0.010%	Specification: <LOQ%
Cannabigerol (CBG)	LOQ: 0.010%	Specification: <LOQ%
Cannabidiolic Acid (CBDa)	LOQ: 0.010%	Specification: <LOQ%
Tetrahydrocannabivarin (THCV)	LOQ: 0.010%	Specification: <LOQ%
Cannabichromene (CBC)	LOQ: 0.010%	Specification: <LOQ%
Cannabinol (CBN)	LOQ: 0.010%	Specification: <LOQ%
Delta-8-Tetrahydrocannabinol (Δ8-THC)	LOQ: 0.010%	Specification: <LOQ%
Cannabigerolic Acid (CBGa)	LOQ: 0.010%	Specification: +/- 0.84% (~250 mg/unit)
Cannabidivarin (CBDV)	LOQ: 0.010%	Specification: <LOQ%

Heavy Metals Assay

Arsenic	LOQ: 136.761 PPB	Specification: <LOQ%
Cadmium	LOQ: 136.761 PPB	Specification: <LOQ%
Lead	LOQ: 136.761 PPB	Specification: <LOQ%
Mercury	LOQ: 136.761 PPB	Specification: <LOQ%

Microbials Assay

Coliforms	Specification: < 1,000 CFU/g	**Aerobic Bacteria**	Specification: Not Detected
Total Yeasts & Molds	Specification: <1,000 CFU/g	**Powdery Mildew**	Specification: Not Detected
STEC E. coli	Specification: Not Detected	**Aspergillus niger**	Specification: Not Detected
Salmonella	Specification: Not Detected	**Aspergillus flavus**	Specification: Not Detected

Mycotoxins Assay

Aflatoxins	LOQ: 5.00 PPB	Specification: <LOQ%
Ochratoxin A	LOQ: 5.00 PPB	Specification: <LOQ%

Residual Solvents Assay

1,4 Dioxane	LOQ: 100 PPM	Spec: <LOQ%	**Pentanes**	LOQ: 500 PPM	Spec: <LOQ%
2-Butanol	LOQ: 500 PPM	Spec: <LOQ%	**n-Pentane**	LOQ: 500 PPM	Spec: <LOQ%
2-Ethoxy-Ethanol	LOQ: 100 PPM	Spec: <LOQ%	**Isopentane**	LOQ: 500 PPM	Spec: <LOQ%
2-Propanol IPA	LOQ: 500 PPM	Spec: <LOQ%	**Neopentane**	LOQ: 500 PPM	Spec: <LOQ%
Acetone	LOQ: 500 PPM	Spec: <LOQ%	**Butanes**	LOQ: 500 PPM	Spec: <LOQ%
Acetonitrile	LOQ: 100 PPM	Spec: <LOQ%	**n-Butane**	LOQ 500 PPM	Spec: <LOQ%
Benzene Cumene	LOQ: 1 PPM	Spec: <LOQ%	**Isobutane**	LOQ: 500 PPM	Spec: <LOQ%
Cyclohexane	LOQ: 50 PPM	Spec: <LOQ%	**Hexanes**	LOQ: 50 PPM	Spec: <LOQ%
Dichloromethane	LOQ: 500 PPM	Spec: <LOQ%	**n-Hexane**	LOQ: 50 PPM	Spec: <LOQ%
Ethyl-Acetate	LOQ: 100 PPM	Spec: <LOQ%	**2-Methyl-Pentane**	LOQ: 50 PPM	Spec: <LOQ%
Ethyl-Ether	LOQ: 500 PPM	Spec: <LOQ%	**3-Methyl-Pentane**	LOQ: 50 PPM	Spec: <LOQ%
Ethylene-Glycol	LOQ: 500 PPM	Spec: <LOQ%	**2,2-Dimethyl-Butane**	LOQ: 50 PPM	Spec: <LOQ%
Ethylene Oxide	LOQ: 300 PPM	Spec: <LOQ%	**2,3-Dimethyl-Butane**	LOQ: 50 PPM	Spec: <LOQ%
Heptane	LOQ: 20 PPM	Spec: <LOQ%	**Xylenes**	LOQ: 300 PPM	Spec: <LOQ%
Isopropyl-Acetate	LOQ: 500 PPM	Spec: <LOQ%	**m-Xylene**	LOQ: 300 PPM	Spec: <LOQ%
Methanol	LOQ: 500 PPM	Spec: <LOQ%	**o-Xylene**	LOQ: 300 PPM	Spec: <LOQ%
Propane	LOQ: 100 PPM	Spec: <LOQ%	**p-Xylene**	LOQ: 300 PPM	Spec: <LOQ%
Terahydrofuran	LOQ: 500 PPM	Spec: <LOQ%	**Ethyl-Benzene**	LOQ: 300 PPM	Spec: <LOQ%
Tolulene	LOQ: 100 PPM	Spec: <LOQ%			

Pesticides Assay

Abamectin	LOQ: 1.00 PPM	Spec: <LOQ%	**Fludioxonil**	LOQ: 1.00 PPM	Spec: <LOQ%
Acequinocyl	LOQ: 0.50 PPM	Spec: <LOQ%	**Imidacloprid**	LOQ: 1.00 PPM	Spec: <LOQ%
Bifenazate	LOQ: 1.00 PPM	Spec: <LOQ%	**Mycobutanil**	LOQ: 1.00 PPM	Spec: <LOQ%
Bifenthrin	LOQ: 1.00 PPM	Spec: <LOQ%	**Paclobutrazol**	LOQ: 1.00 PPM	Spec: <LOQ%
Cyfluthrin	LOQ: 0.30 PPM	Spec: <LOQ%	**Piperonyl Butoxide**	LOQ: 0.50 PPM	Spec: <LOQ%
Cypermethrin	LOQ: 1.00 PPM	Spec: <LOQ%	**Pyrethins**	LOQ: 0.50 PPM	Spec: <LOQ%
Daminozide	LOQ: 1.00 PPM	Spec: <LOQ%	**Quintozene**	LOQ: 1.00 PPM	Spec: <LOQ%
Dimethomorph	LOQ: 1.00 PPM	Spec: <LOQ%	**Spinetoram**	LOQ: 1.00 PPM	Spec: <LOQ%
Etoxazole	LOQ: 1.00 PPM	Spec: <LOQ%	**Spinosad**	LOQ: 1.00 PPM	Spec: <LOQ%
Fenhexamid	LOQ: 1.00 PPM	Spec: <LOQ%	**Spirotetramat**	LOQ: 1.00 PPM	Spec: <LOQ%
Flonicamid	LOQ: 1.00 PPM	Spec: <LOQ%	**Thiamethoxam**	LOQ: 1.00 PPM	Spec: <LOQ%

ADDITIONAL INFORMATION

This information is provided for documentation purposes only and is not intended to replace independent 3rd party lab analysis.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any end use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information for customized products that vary from these product specifications.

QUALITY ASSURANCE DOCUMENTS:

GMP COMPLIANCE STATEMENT

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Covalent CC, LLC operates under current Good Manufacturing Practices (cGMP) and has established the internationally recognized Hazard Analysis and Critical Control Points (HACCP) system for consumer product safety standards. To achieve our goal, we:

- ☑ Apply sound safety technology, science, and industry best practices into our quality systems
- ☑ Perform regular identification of hazards, determination of critical control points and timely implementation of effective control and monitoring measures
- ☑ Conform to regulatory requirements and the agreed customer requirements
- ☑ Define product safety objectives and continually review to ensure consistent compliance
- ☑ Communicate, implement and maintain this policy at all levels of the company
- ☑ Employ consistent staff, contract manufacturers and source from reliable suppliers
- ☑ Provide our personnel with adequate information, training, instructions, tools and equipment to perform their job in a hygienic and professional manner
- ☑ Promote personal hygiene and cleanliness to our staff, contractors, suppliers and visitors
- ☑ We strive to continually improve our processes to ensure the delivery of safe consumer products through efficient, effective and suitable safety management systems

Kelly Ann Bortman

Kelly Ann Bortman
Founder & President