

Specification Sheet Cannabicitran (CBTC or CBT)

Specifications for BayMedica Cannabichromene

Name	Cannabicitran	Physical Description	Yellow/Orange Oi
Synonyms	CBTC or CBT	Chemical Structure	
CAS	31508-71-1		
Chemical Forumula	C ₂₁ H ₃₀ O ₂		
Molecular Weight	314.469		+
IUPAC Name	(6aα,9β,10aα)-6a,7,8,9,10,10	a-hexahydro-6,6,9-trimethyl-3-pentyl	l-1,9-epoxy-6H-dibenzo[b,d]py

Analyte	Specification
Cannabinoids	%
CBC	≤ 2.5%
CBCA	< LOQ
CBCV	< LOQ
CBD	≤ 2.5%
CBDA	< LOQ
CBDV CBDVA	< LOQ
CBE	< LOQ
CBG	< LOQ
CBGA	< LOQ
CBL	≤ 1.5%
CBLA	< LOQ
CBN	< LOQ
CBNA	< LOQ
CBT	≥ 94%
∆8-THC	< LOQ
Δ9-THC	< LOQ
Δ9-ΤΗCΑ	< LOQ
Δ9-THCV	< LOQ
Δ9-ΤΗϹVΑ	< LOQ

Analyte	Specification
Heavy Metals	ppb
Arsenic	< LOQ
Cadmium	< LOQ
Lead	< LOQ
Mercury	< LOQ
Residual Solvents (36)	ppm
Class I	ND
Class IIA	< LOQ
Class IIB	< LOQ
Class III	< LOQ
Microbials	CFU/g
Coliforms	< 10,000
Yeast & Mold	<10
Aerobic Bacteria	<100
Salmonella	<10
Total Enterobacteriaceae	<10
Mycotoxins	ppb
B1	< LOQ
B2	< LOQ
G1	< LOQ
G2 Ochratoxin A	< LOQ
Pesticides	ppb
51 Pesticides	< LOQ

Storage

Impurities

Other

Identity

Mass

Water

Store in a cool, dark place (refridgeration ideal). Avoid prolonged exposure to ultraviolet light or exposure to heat

Specification

314.7 by LC/MS

<1.0%

lf > 0.5%

Conforms by NMR

BayMedica LLC • 458 Carlton Court, South San Francisco, CA 94080 www.baymedica.com • orders@baymedica.com



Certificate of Analysis

ICAL ID: 20240222-039 Sample: CA240222-011-042 CBT-240221 Strain: CBT-240221 Category: Concentrates & Extracts Type: Other InfiniteCAL third-party lab results Lic. # NONE San Diego, CA 92121 Lic. # **QA SAMPLE - INFORMATIONAL ONLY**

1 of 3 Batch#: CBT-240221 Batch Size Collected: Total Batch Size: Collected: 02/27/2024; Received: 02/27/2024 Completed: 02/27/2024



Cannabinoid Profile

Terpene Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
THCa	0.3680	0.0924	ND	ND	CBGa	0.3965	0.1322	ND	ND
∆9-THC	0.3680	0.1024	ND	ND	CBG	0.3920	0.1307	ND	ND
∆8-THC	0.3680	0.0506	ND	ND	CBLa	3.1232	1.0411	ND	ND
THCVa	0.4587	0.1529	ND	ND	CBL	0.3680	0.1106	ND	ND
THCV	0.3680	0.0423	ND	ND	CBNa	0.3731	0.1244	ND	ND
CBDa	0.3680	0.0951	ND	ND	CBN	0.3680	0.0780	ND	ND
CBD	0.3680	0.0815	ND	ND	CBT	0.3680	0.0906	95.29	952.9
CBDVa	0.3680	0.1063	ND	ND	Total THC			ND	ND
CBDV	0.3680	0.0421	ND	ND	Total CBD			ND	ND
CBCa	0.5083	0.1694	ND	ND	Total			95.29	952.89
CBC	0.4549	0.1516	ND	ND					
CBCV	0.3680	0.0691	ND	ND					

Total THC=THCa * 0.877 + d9-THC + d8-THC + d8-THC; Total CBD = CBDa * 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids: UHPLC-DAD(POT-INST-005), Moisture: Moisture Analyzer (MOISTURE-001), Water Activity: Water Activity Meter (WA-INST-002), Foreign Material: Microscope (FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

•						
Analyte	LOQ (mg/g)	LOD (mg/g) %	mg/g Analyte	LOQ (mg/g)	LOD (mg/g) % mg/g	

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



Infinite Chemical Analysis Labs 8312 Miramar Mall San Diego, CA (858) 623-2740 www.infiniteCAL.com Lic# C8-0000047-LIC

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Josh Swider Lab Director, Managing Partner 02/27/2024

This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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Batch#: CBT-240221 Batch Size Collected: Total Batch Size: Collected: 02/27/2024; Received: 02/27/2024 Completed: 02/27/2024

Residual Solvent Analysis

Category 1		LOQ	LOD	imit :	Status	Category 2		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	-		µg/g	µg/g	µg/g	µg/g	_		µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	ND	0.509	0.17	1	Pass	Acetone	ND	51.246	17.082	5000	Pass	n-Hexane	ND	0.2807	0.066	290	Pass
Benzene	ND	0.064	0.021	1	Pass	Acetonitrile	ND	0.359	0.12	410	Pass	Isopropanol	ND	3.8401	1.28	5000	Pass
Chloroform	ND	0.108	0.036	1	Pass	Butane	ND	4.849	0.971	5000	Pass	Methanol	ND	8.917	2.972	3000	Pass
Ethylene Oxide	ND	0.579	0.153	1	Pass	Ethanol	ND	7.843	2.614	5000	Pass	Pentane	ND	4.271	0.962	5000	Pass
Methylene-Chloride	ND	0.7288	0.127	1	Pass	Ethyl-Acetate	ND	2.288	0.313	5000	Pass	Propane	ND	13.302	4.434	5000	Pass
Trichloroethene	ND	0.145	0.018	1	Pass	Ethyl-Ether	ND	3.548	1.183	5000	Pass	Toluene	ND	0.864	0.088	890	Pass
						Heptane	ND	2.859	0.687	5000	Pass	Xylenes	ND	2.572	0.216	2170	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

Heavy Metal Screening

		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.009	0.003	0.2	Pass
Cadmium	ND	0.002	0.001	0.2	Pass
Lead	ND	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	0.1	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Aspergillus flavus		NR	NT
Aspergillus fumigatus		NR	NT
Aspergillus niger		NR	NT
Aspergillus terreus		NR	NT
STEC		Not Detected	Pass
Salmonella SPP		Not Detected	Pass

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.

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3 of 3 Batch#: CBT-240221 Batch Size Collected: Total Batch Size: Collected: 02/27/2024; Received: 02/27/2024 Completed: 02/27/2024

Chemical Residue Screening

Category 1		LOQ	LOD	Status
	µg/g	µg/g	µg/g	
Aldicarb	ND	0.030	0.008	Pass
Carbofuran	ND	0.030	0.005	Pass
Chlordane	ND	0.075	0.025	Pass
Chlorfenapyr	ND	0.075	0.025	Pass
Chlorpyrifos	ND	0.046	0.015	Pass
Coumaphos	ND	0.030	0.004	Pass
Daminozide	ND	0.053	0.018	Pass
Dichlorvos	ND	0.055	0.018	Pass
Dimethoate	ND	0.030	0.006	Pass
Ethoprophos	ND	0.030	0.006	Pass
Etofenprox	ND	0.030	0.004	Pass
Fenoxycarb	ND	0.030	0.004	Pass
Fipronil	ND	0.050	0.017	Pass
Imazalil	ND	0.030	0.009	Pass
Methiocarb	ND	0.030	0.002	Pass
Mevinphos	ND	0.030	0.008	Pass
Paclobutrazol	ND	0.030	0.009	Pass
Parathion Methyl	ND	0.024	0.008	Pass
Propoxur	ND	0.030	0.008	Pass
Spiroxamine	ND	0.030	0.006	Pass
Thiacloprid	ND	0.030	0.005	Pass

5	Mycotoxins		LOQ	LOD	Limit	Status
		µg/kg	µg/kg	µg/kg	µg/kg	
5	B1	ND	8.98	2.96		Tested
5	B2	ND	10.17	3.36		Tested
5	G1	ND	5.25	1.73		Tested
5	G2	ND	6.26	2.07		Tested
5	Ochratoxin A	ND	13.37	4.41	20	Pass
5	Total Aflatoxins	ND			20	Pass

Category 2		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.099	0.033	0.1	Pass	Kresoxim Methyl	ND	0.030	0.007	0.1	Pass
Acephate	ND	0.030	0.007	0.1	Pass	Malathion	ND	0.030	0.003	0.5	Pass
Acequinocyl	ND	0.046	0.015	0.1	Pass	Metalaxyl	ND	0.030	0.005	2	Pass
Acetamiprid	ND	0.030	0.005	0.1	Pass	Methomyl	ND	0.030	0.009	1	Pass
Azoxystrobin	ND	0.030	0.005	0.1	Pass	Myclobutanil	ND	0.030	0.007	0.1	Pass
Bifenazate	ND	0.030	0.007	0.1	Pass	Naled	ND	0.030	0.008	0.1	Pass
Bifenthrin	ND	0.030	0.004	3	Pass	Oxamyl	ND	0.030	0.007	0.5	Pass
Boscalid	ND	0.030	0.008	0.1	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.1	Pass
Captan	ND	0.358	0.120	0.7	Pass	Permethrin	ND	0.030	0.002	0.5	Pass
Carbaryl	ND	0.030	0.006	0.5	Pass	Phosmet	ND	0.030	0.005	0.1	Pass
Chlorantraniliprole	ND	0.030	0.009	10	Pass	Piperonyl Butoxide	ND	0.030	0.003	3	Pass
Clofentezine	ND	0.030	0.002	0.1	Pass	Prallethrin	ND	0.071	0.023	0.1	Pass
Cyfluthrin	ND	0.056	0.019	2	Pass	Propiconazole	ND	0.030	0.009	0.1	Pass
Cypermethrin	ND	0.181	0.060	1	Pass	Pyrethrins	ND	0.030	0.003	0.5	Pass
Diazinon	ND	0.030	0.005	0.1	Pass	Pyridaben	ND	0.030	0.002	0.1	Pass
Dimethomorph	ND	0.030	0.005	2	Pass	Spinetoram	ND	0.030	0.001	0.1	Pass
Etoxazole	ND	0.030	0.004	0.1	Pass	Spinosad	ND	0.030	0.001	0.1	Pass
Fenhexamid	ND	0.034	0.011	0.1	Pass	Spiromesifen	ND	0.030	0.009	0.1	Pass
Fenpyroximate	ND	0.030	0.004	0.1	Pass	Spirotetramat	ND	0.030	0.008	0.1	Pass
Flonicamid	ND	0.035	0.012	0.1	Pass	Tebuconazole	ND	0.030	0.006	0.1	Pass
Fludioxonil	ND	0.036	0.012	0.1	Pass	Thiamethoxam	ND	0.030	0.008	5	Pass
Hexythiazox	ND	0.030	0.001	0.1	Pass	Trifloxystrobin	ND	0.030	0.003	0.1	Pass
Imidacloprid	ND	0.033	0.011	5	Pass						

Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Cannabicitran
Company: BayMedica LLC
Address: 458 Carlton Ct. South San Francisco, CA 94080, USA
Tel: 1.858-354-7853
Website: www.baymedica.com
E-mail: sjohnson@baymedica.com

2. HAZARDS IDENTIFICATION

Physical Hazards: Not classified Health Hazards: Not classified Environmental Hazards: Not classified Pictograms: None Signal word: No signal word Hazard statements: None Precautionary statements: None Description of other hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:

(6aα,9β,10aα)-6a,7,8,9,10,10a-hexahydro-6,6,9-trimethyl-3-pentyl-1,9-epoxy-6H-dibenzo[b,d]pyran CAS#: 31508-71-1 Purity: >=94% Formula: C21H30O2 Molecular Weight: 314.47 Hazard Symbols: None Risk Phrases: None

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult a doctor.



Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Consult a doctor.

Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water. Consult a doctor.

Inhalation: Remove from exposure and move to fresh air immediately. Consult a doctor. **Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: Dry chemical, foam, water spray, carbon dioxide. **Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid breathing vapors, mist or gas. **Measures for environmental protection:** Do not let product enter drains.

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% detergent solution and ventilate area until after disposal is complete.

7. HANDLING AND STORAGE

Precautions for safe handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

Storage: Store in a well closed container. Protected from air and light, refrigerate when possible.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust



ventilation, or other engineering controls to control airborne levels.

Respiratory protection: Dust respirator. Follow local and national regulations. **Hand protection:** Protective gloves.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow/Orange Oil Odor: Mildly herbal Odor Threshold: No data available pH: No data available Melting point: No data available Freezing point: No data available **Initial boiling point and boiling range:** No data available Flash point: No data available **Evaporation rate:** No data available Flammability (solid, gas): No data available Flammability or explosive limits: No data available Vapor pressure: No data available Vapor density: No data available Relative density: No data available Water solubility: No data available Partition coefficient: No data available Autoignition temperature: No data available **Decomposition temperature:** No data available Viscosity: No data available **Explosive properties:** No data available Oxidizing properties: No data available

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.
Chemical Stability: Stable under recommended temperatures and pressures.
Conditions to Avoid: Incompatible materials, strong oxidants, heat.
Incompatibilities with Other Materials: Strong oxidizing/reducing agents, strong acids/alkalis.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.



Hazardous Polymerization: Has not been reported.

11. TOXILOGICAL INFORMATION

Acute Toxicity: No data available Skin corrosion/irritation: No data available Serious eye damage/irritation: No data available Germ cell mutagenicity: No data available Carcinogenicity: IARC: No data available NTP: No data available Reproductive toxicity: No data available

12. ECOLOGICAL INFORMATION

Toxicity: No data available Persistence and degradability: No data available Bioaccumulation: No data available Mobility in soil: No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

Hazards Class: Does not meet the criteria for classification as hazardous for transport.

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

DOT regulations: Does not meet the criteria for classification as hazardous for transport.

- Hazard class: Not a dangerous good
- Land transport ADR/RID (cross-border): Click here to enter text.
- ADR/RID class: Not a dangerous good
- Maritime transport IMDG: Not a dangerous good

Air transport ICAO-TI and IATA-DGR: Not a dangerous good





• ICAO/IATA Class: Not a dangerous good

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available Chemical Safety Assessment: No data available <u>US Federal Regulations</u> SARA Section 355 (extremely hazardous substances): Not listed SARA Section 313 (specific toxic chemical listings): Not listed Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): Not listed TSCA (Toxic Substances Control Act): Not listed

16. ADDITIONAL INFORMATION

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages.

END OF SAFETY DATA SHEET

