

## H4CBD Vape Pen Cosmic Berry

Analysis ID: A14392-10

## Customer

Product description: /	Method id: GCMS_GC_FID_general_v1.0	Cannastra, s.r.o.
Batch number: na	Date of aquisition: 2025-09-30	Žižkova 708, 26101 Příbram II
Sample type: extracts and hemp final products	Date of processing: 2025-10-01	Czech Republic
SFP id: V13270	Date of approval: 2025-12-13	
Sample received date: 2025-09-30	Remarks: /	
Remarks: /		



## Assay of Main/Natural Cannabinoids

Short	Substance name	Assay %	M.U.
CBG	Cannabigerol	2.47	0.15
CBC	Cannabichromene	2.85	0.17
CBGV	Cannabigerivarin	ND	ND
CBDV	Cannabidivarin	0.98	0.06
CBCV	Cannabichromevarin	ND	ND
CBN	Cannabinol	3.13	0.19
CBD	Cannabidiol	27.61	1.10
$\Delta$ 8-THC	$\Delta$ 8-tetrahydrocannabinol	ND	ND
$\Delta$ 9-THC	$\Delta$ 9-tetrahydrocannabinol	ND	ND
CBV	Cannabivarin	ND	ND
CBL	Cannabicyclol	0.44	0.09
CBE	Cannabielsoin	1.90	0.11
$\Delta$ 8-THCV	$\Delta$ 8-tetrahydrocannabivarin	ND	ND
$\Delta$ 9-THCV	$\Delta$ 9-tetrahydrocannabivarin	ND	ND
CBT	Cannabicitran	3.41	0.20
CBDB	Cannabidibutol	ND	ND

Method of Analysis: GC-FID (Gas Chromatography with Flame Ionization Detection) coupled with GC-MS (Gas Chromatography-Mass Spectrometry). The determined measurement uncertainty (M. U.) is always given in the same unit as specified result. LOQ = Values below quantification limit of 0.02 % (respectively 200 mg/kg). ND = Not Detected - below detection limit (lower than 0.01 % respectively 100 mg/kg).

## Assay of semisynthetic and synthetically derived cannabinoids

Short	Substance name	Assay %	M.U.
iso-THC	$\Delta^8$ -iso-Tetrahydrocannabinol	ND	ND
S-HHC	9S-Hexahydrocannabinol	ND	ND
R-HHC	9R-Hexahydrocannabinol	ND	ND
R-HHCP	9R-Hexahydrocannabiphorol	ND	ND
S-HHCP	9S-Hexahydrocannabiphorol	ND	ND
d9-THCP	Trans- $\Delta^9$ -tetrahydrocannabiphorol	ND	ND
CBDP	cannabidiphorol	ND	ND
RH4CBD	R-Tetrahydrocannibidiol	28.39	1.14
SH4CBD	S-Tetrahydrocannibidiol	9.21	0.37
d8-THCP	Trans- $\Delta^8$ -Tetrahydrocannabiphorol	ND	ND
CBND	Cannabinodiol	ND	ND
ciso-HHC	cis-iso-Hexahydrocannabinol	ND	ND
tiso-HHC	trans-iso-Hexahydrocannabinol	ND	ND
H2CBD	8,9-Dihydrocannabidiol	0.50	0.03
d9-THCB	$\Delta^9$ -Tetrahydrocannabibutol	ND	ND
9R-HHCAc	9R-Hexahydrocannabinol Acetate	ND	ND
$\Delta^10$ -THC	$\Delta^10$ -Tetrahydrocannabinol	ND	ND
CBGAc	Cannabigerol acetate	ND	ND
S-HHCAc	9S-Hexahydrocannabinol acetate	ND	ND
CBGmAc	Cannabigerol monoacetate isomer	ND	ND
CBNAc	Cannabinol acetate	ND	ND
$\Delta^9$ -THCC8	$\Delta^9$ -THC-C8	ND	ND
$\Delta^8$ -THCC8	$\Delta^8$ -THC-C8	ND	ND
CBNP	Cannabiphorol	ND	ND
$\Delta^3$ -THC	9(R)- $\Delta^6a$ ,10a-THC	ND	ND
$\Delta^7$ -THC	9(S)- $\Delta^7$ -THC	ND	ND
$\Delta^9$ -THCH	$\Delta^9$ -THCH	ND	ND
$\Delta^8$ -THCH	$\Delta^8$ -THCH	ND	ND
$\Delta^9$ -THCO	$\Delta^9$ -THC Acetate	ND	ND
$\Delta^8$ -THCO	$\Delta^8$ -THC Acetate	ND	ND
$\Delta^9$ -THCPO	$\Delta^9$ -THCP Acetate	ND	ND
$\Delta^8$ -THCPO	$\Delta^8$ -THCP Acetate	ND	ND
$\Delta^8$ -THCHO	$\Delta^8$ -THCH Acetate	ND	ND
$\Delta^9$ -THCVO	Tetrahydrocannabivarin Acetate	ND	ND
$\Delta^8$ -THCVO	$\Delta^8$ -Tetrahydrocannabivarin Acetate	ND	ND
$\Delta^8$ -THCBO	$\Delta^9$ -THCB Acetate	ND	ND
S-HHCC8	9(S)-Hexahydrocannabinol-C8	ND	ND
R-HHCC8	9(R)-Hexahydrocannabinol-C8	ND	ND
R-HHCH	9(R)-Hexahydrocannabihexol	ND	ND
S-HHCH	9(S)-Hexahydrocannabihexol	ND	ND
R-HHCB	9(R)-Hexahydrocannabutol	ND	ND
S-HHCB	9(S)-Hexahydrocannabihexol	ND	ND
R-HHCV	9(R)-Hexahydrocannabivarin	ND	ND
S-HHCV	9(S)-Hexahydrocannabivarin	ND	ND
R-HHCPAc	9(R)-Hexahydrocannabiphorol Acetate	ND	ND
S-HHCPAc	9(S)-Hexahydrocannabiphorol Acetate	ND	ND
10H-RHHC	10(S)-hydroxy-9(R)-Hexahydrocannabinol	ND	ND
OH-HHCP	10-hydroxy-Hexahydrocannabiphorol	ND	ND
MCO-THC	Methyl Carbonate Tetrahydrocannabinol	ND	ND

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## Screening for Spice type compounds and other synthetic cannabinoids

Short	Substance name	Assay %	M.U.
JWH018	JWH 018 CAS:209414-07-3	ND	ND
JWH073	JWH 073 CAS:208987-48-8	ND	ND
JWH122	JWH 122 CAS:619294-47-2	ND	ND
JWH210	JWH 210 CAS:824959-81-1	ND	ND
JWH250	JWH 250 CAS:864445-43-2	ND	ND
AM2201	AM2201 CAS:335161-24-5	ND	ND
AM694	AM694 CAS:335161-03-0	ND	ND
AM1248	AM1248 CAS:335160-66-2	ND	ND
HU210	HU-210 CAS:112830-95-2	ND	ND
HU211	HU-211 CAS:112924-45-5	ND	ND
CP47497	(±)-CP 47,497 CAS:70434-82-1	ND	ND
CP55940	(±)-CP 55,940 CAS:83003-12-7	ND	ND
UR144	UR-144 CAS:1199943-44-6	ND	ND
XLR11	XLR11 CAS:1364933-54-9	ND	ND
AKB48	APINACA CAS:1345973-53-6	ND	ND
5FAKB48	5-fluoro AKB48 CAS:1400742-13-3	ND	ND
PB22	PB-22 CAS:1400742-17-7	ND	ND
5FPB22	5-fluoro PB-22 CAS:1400742-41-7	ND	ND
FUB144	FUB-144 CAS:2185863-15-2	ND	ND
FUBAMB	MMB-FUBINACA CAS:1971007-92-7	ND	ND
ABFUB	AB-FUBINACA CAS:1185282-01-2	ND	ND
ABCHMI	AB-CHMINACA CAS:1185887-21-1	ND	ND
ADBFUB	ADB-FUBINACA CAS:1445583-51-6	ND	ND
ADBPINA	ADB-PINACA CAS:1633766-73-0	ND	ND
MABCHMI	MAB-CHMINACA CAS:1863065-92-2	ND	ND
MDMBCHMI	MDMB-CHMICA CAS:1971007-95-0	ND	ND
5FADB	(R)-5-fluoro ADB CAS:1838134-16-9	ND	ND
CUMYPINA	5-fluoro CUMYL-PINACA CAS:1400742-16-6	ND	ND
AFB48	AKB48 N-(4-fluorobenzyl) analog CAS:2180933-90-6	ND	ND
5FAMB	5-fluoro AMB CAS:1801552-03-3	ND	ND
5FABICA	5-fluoro ABICA CAS:1801338-26-0	ND	ND
5FSDB006	5-fluoro SDB-006 CAS:1776086-02-2	ND	ND
ADTHPIN	ATHPINACA isomer 1 CAS:1400742-48-4	ND	ND
ADBCHMI	ADB-CHMICA CAS:2221100-70-3	ND	ND
SGT67	5-fluoro CUMYL-PICA CAS:1400742-18-8	ND	ND
CUMPINA	CUMYL-PINACA CAS:1400742-15-5	ND	ND
CUMP7AIC	5-fluoro CUMYL-P7AICA CAS:2171492-36-5	ND	ND
CUMPICA	CUMYL-PICA CAS:1400742-32-6	ND	ND
SDB006	SDB-006 CAS:695213-59-3	ND	ND
ABPINA	AB-PINACA CAS:1445752-09-9	ND	ND
SGT78	4-cyano CUMYL-BUTINACA CAS:1631074-54-8	ND	ND
5FMD2201	5-fluoro MDMB-PICA CAS:1971007-88-1	ND	ND
4FMDBIN	4-fluoro MDMB-BUTINACA CAS:2390036-46-9	ND	ND
MD4enPIN	MDMB-4en-PINACA CAS:2504100-70-1	ND	ND
4FMDBIC	4-fluoro MDMB-BUTICA CAS:2682867-53-2	ND	ND
CUMPEGA	CUMYL-PeGACLONE CAS:2160555-55-3	ND	ND
ADBBUTI	ADB-BUTINACA CAS:2682867-55-4	ND	ND
5FCUMPeG	5-fluoro CUMYL-PeGACLONE CAS:2377403-49-9	ND	ND
ADB4PIN	ADB-4en-PINACA CAS:2666932-44-9	ND	ND
5FMBPICA	5-fluoro EDMB-PICA CAS:2666934-54-7	ND	ND
5BrAKB48	5-bromo APINACA CAS:2160555-51-9	ND	ND

Short	Substance name	Assay %	M.U.
5FEPIC	5-fluoro EMB-PICA CAS:2648861-83-8	ND	ND
MD5BrIN	MDMB-5Br-INACA CAS:MD5BrIN	ND	ND
ADB5BrIN	ADB-5Br-INACA CAS:ADB5BrIN	ND	ND
EADBFU	5,3-ADB-4en-PFUPPYCA CAS:EADBFU	ND	ND
FUACADB	ADB-FUBIATA CAS:2938025-73-9	ND	ND
AP5BIN	ADB-5'Br-PINACA CAS:AP5BIN	ND	ND
SGT152	CUMYL-NBMINACA CAS:1631074-60-6	ND	ND
ADBHEX	ADB-HEXINACA CAS:ADBHEX	ND	ND
RCS4	RCS-4 CAS:1345966-78-0	ND	ND
FAP7A	5-fluoro 7-APAICA CAS:2682867-58-7	ND	ND
BZHEX	MDA 19 CAS:1048973-47-2	ND	ND
BZPOX	BZO-POXIZID CAS:1048973-64-3	ND	ND
CUCHM	CUMYL-CH-MeGACLONE CAS:2813950-07-9	ND	ND
7AICA	AP7AICA CAS:2366269-62-5	ND	ND
CMP7CA	CUMYL-P7AICA CAS:2366268-31-5	ND	ND
EDMBPIN	EDMB-PINACA CAS:2666934-55-8	ND	ND
MDMBPIN	MDMB-PINACA CAS:1971007-99-4	ND	ND
MDMBBUTI	MDMB-BUTINACA CAS:3039541-81-3	ND	ND
MDMB5INA	MDMB-5Me-INACA	ND	ND
EDMB4PIN	EDMB-4en-PINACA CAS:EDMB4PIN	ND	ND
MDMBrPIN	MDMB-5'Br-4en-PINACA CAS:MDMBrPIN	ND	ND

Method of Analysis: GC-MS (Gas Chromatography-Mass Spectrometry). The determined measurement uncertainty (M. U.) is always given in the same unit as specified result. ND = Not Detected - below detection limit 0.01%.

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This certificate was reviewed by Ivan Plantan PhD, quality control on 2025-12-13.



This certificate was approved by Tina Pungartink, director on 2025-12-13.

