

# Certificate of Analysis Cannabinoids

Description I:	Imperial POD	Client:	The Pack Global
Sample date:	11/10/2023	Sample ID:	F0100012
Bloomday:	-----	Sample material:	concentrate
Description II:	-----		
Further information:	-----		

Abbr.	Cannabinoids Advanced	Result	Unit
T-CBD	Total Cannabidiol (CBD + CBDA)	ND**	% (w/w)
CBD	Cannabidiol	ND**	% (w/w)
CBDA	Cannabidiolic acid	ND**	% (w/w)
T-THC	Total Tetrahydrocannabinol (THC + THCA)	ND**	% (w/w)
D9THC	D9-Tetrahydrocannabinol	ND**	% (w/w)
THCA	Tetrahydrocannabinolic acid	ND**	% (w/w)
D8THC	D8-Tetrahydrocannabinol	ND**	% (w/w)
T-CBG	Total Cannabigerol (CBG + CBGA)	ND**	% (w/w)
CBG	Cannabigerol	ND**	% (w/w)
CBGA	Cannabigerolic acid	ND**	% (w/w)
CBN	Cannabinol	0,96	% (w/w)
CBNA	Cannabinolic Acid	ND**	% (w/w)
CBC	Cannabichromene	ND**	% (w/w)
CBCA	Cannabichromenic Acid	ND**	% (w/w)
CBDV	Cannabidivarin	ND**	% (w/w)
CBDVA	Cannabidivarinic Acid	ND**	% (w/w)
CBL	Cannabicyclol	ND**	% (w/w)
CBLA	Cannabicyclolic Acid	ND**	% (w/w)
THCV	Tetrahydrocannabivarin	ND**	% (w/w)
THCVA	Tetrahydrocannabivarinic Acid	ND**	% (w/w)
9R-HHC	9R-Hexahydrocannabinol	54,04	% (w/w)
9S-HHC	9S-Hexahydrocannabinol	34,84	% (w/w)
HHCP	Hexahydrocannabiphorol*	ND**	% (w/w)
H4CBD	Tetrahydrocannabidiol*	ND**	% (w/w)

Sample received: 16/10/2023 - 1 g



Head of Laboratory Services



Ing. Christian Fuczik, Chemist

Analysis reviewed - last changes: 18/10/2023 at 14:36

**Footnote:**

\*) Stereoisomeres results on request. \*\*) ND =not detectable. The measured value was below the limit of detection of 0.01 % or 100 mg/kg. The expected measurement uncertainty varies with substance and concentration and can be assumed to be a maximum of 10 %.

For the calculations of the equivalent sums, the respective acid forms were multiplied by the factor 0.877 or 0.878 to conclude the equivalent amount of the neutral form.

Analytical methods: HPLC-DAD, GC-FID and GC mass spectrometry (European Pharmacopoeia: 2.2.28, 2.2.29 and 2.2.43).

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# Certificate of Analysis Terpenes

Description I:	Imperial POD	Client:	The Pack Global
Sample date:	11/10/2023	Sample ID:	F0100012
Bloomday:	-----	Sample material:	concentrate
Description II:	-----		
Further information:	-----		

## Class 1 Terpenes

beta-Myrcene	>> 31,044
alpha-Pinene	>> 25,683
beta-Pinene	>> 9,239
(+)-Limonene	>> 11,639
Citronellol	*
Linalool	>> 3,688
(+)-Cedrol	*
beta-Caryophyllene	>> 12,488

## Class 2 Terpenes

Caryophyllene Oxide	0,118
alpha-Humulene	>> 1,828
Eucalyptol	*
Terpinolene	0,333
cis-Ocimene	*
trans-Ocimene	0,174
(-)-Guaiol	*
(-)-alpha-Bisabolol	0,803

## Class 3 Terpenes

cis-Nerolidol	*
trans-Nerolidol	*
alpha-Cedrene	*
Fenchol	0,341
l(-)-Fenchone	*
(+)-Pulegone	*
Geraniol	*
Geranylacetate	*

## Class 4 Terpenes

Isoborneol	*
alpha-Terpinene	0,453
gamma-Terpinene	0,105
Camphene	0,854
(-)-Camphor	0,200
para-Cymene	*
delta-3-Carene	0,518
(-)-Isopulegol	*

**Terpenes total** >> 99,508 mg/g

Sample received: 16/10/2023 - 1 g



Head of Laboratory Services



Ing. Christian Fuczik, Chemist

Analysis reviewed - last changes: 20/10/2023 at 15:07

**Footnote:**

\*) ND = not detectable. The measured value was below the limit of detection of 0.010 mg/g or 10 ppm.  
Unit: mg/g. The validated measurement uncertainty of the method is 20 %.

Method of analysis: HS GC-FID (headspace - gas chromatography-flame ionisation detector). All measurement methods were calibrated and controlled with certified reference materials (CRM).

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