

Certificate of Analysis Cannabinoids

Description I:	Imperial Cart	Client:	The Pack Global
Sample date:	-----	Sample ID:	F0100011
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	49,95	% (w/w)
9S-HHC	9S-Hexahydrocannabinol	30,74	% (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 14:35

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 Cart	Client:	The Pack Global
Sample date:	-----	Sample ID:	F0100011
Bloomday:	-----	Sample material:	concentrate
Description II:	-----		
Further information:	-----		

Class 1 Terpenes	
beta-Myrcene	>> 20,797
alpha-Pinene	>> 3,250
beta-Pinene	>> 4,646
(+)-Limonene	>> 36,505
Citronellol	*
Linalool	>> 6,811
(+)-Cedrol	*
beta-Caryophyllene	>> 17,448

Class 2 Terpenes	
Caryophyllene Oxide	*
alpha-Humulene	>> 1,110
Eucalyptol	*
Terpinolene	0,842
cis-Ocimene	*
trans-Ocimene	0,263
(-)-Guaiol	*
(-)-alpha-Bisabolol	0,438

Class 3 Terpenes	
cis-Nerolidol	*
trans-Nerolidol	*
alpha-Cedrene	0,217
Fenchol	>> 1,096
l-(-)-Fenchone	*
(+)-Pulegone	*
Geraniol	*
Geranylacetate	*

Class 4 Terpenes	
Isoborneol	*
alpha-Terpinene	0,494
gamma-Terpinene	0,100
Camphene	0,828
(-)-Camphor	0,279
para-Cymene	*
delta-3-Carene	0,320
(-)-Isopulegol	*

Terpenes total >> 95,444 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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