

Client: Naturecan Ltd
Bank Chambers
Stockport
Greater Manchester
SK1 1AR
UNITED KINGDOM

Certificate Code: AR-20-CC-500155-01
Page Number: Page 1 of 4
Reported On: 07/07/2020
Reported By: Hanin Bashir
Analytical Services Manager

PO reference: EU2

Certificate of Analysis

Sample number	444-2020-50000057	Received on	10/06/2020
Your sample code	20-AHA-164	Analysis started on	10/06/2020
Your sample reference	CBD + Astanxanthin Capsules		
Expected Result	10mg CBD	Additional information	180 capsules
Storage condition	Ambient	Matrix	Capsules

Analyte	Method Ref.	Results	LOQ	MRL mg/kg	Recovery [%]
Test Code	Analyte	Results Units			Method Ref. ¹
RMM04 †	Aflatoxin B1	<1.0 µg/kg		1 µgµg/kg	
RMM04 †	Aflatoxin B2	<0.20 µg/kg		0.2 µgµg/kg	
RMM04 †	Aflatoxin G1	<0.50 µg/kg		0.5 µgµg/kg	
RMM04 †	Aflatoxin G2	<0.50 µg/kg		0.5 µgµg/kg	
RMM04 †	Aflatoxins total	<2.2 µg/kg			
UD401	Arsenic (As)	0.005 mg/kg		0.002 mgmg/kg	ICPMS/010 ^{UD}
UD033	Cadmium	<0.001 mg/kg		0.001 mgmg/kg	ICPMS/010
UD032	Lead	0.014 mg/kg		0.005 mgmg/kg	ICPMS/010
UD579	Mercury	0.002 mg/kg		0.001 mgmg/kg	ICPMS/010
RM254 †	Ochratoxin	< 0.5 µg/kg		0.2 µgµg/kg	
†	Screened pesticides	Not Detected			
†	Screened pesticides	Not Detected			
†	Screened pesticides	Not Detected			
CCBD1 *	Cannabichromene (CBC)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabichromenic Acid (CBCA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabicyclol (CBL)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabidiol (CBD)	1.9711 %		0.0025 %	CBD 001
CCBD1 *	Cannabidiolic Acid (CBDA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabidivarin (CBDV)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabidivarinic Acid (CBDVA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabigerol (CBG)	0.0106 %		0.0025 %	CBD 001
CCBD1 *	Cannabigerolic Acid (CBGA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabinol (CBN)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Cannabinolic Acid (CBNA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Tetrahydrocannabinolic Acid (THCA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Tetrahydrocannabivarin (THCV)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Tetrahydrocannabivarinic Acid (THCVA)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Total CBD (CBD+(CBDA X 0.877))	1.9711 %			CBD 001
CCBD1 *	Total THC (THC+ (THCA x 0.877))	<0.0025 %			CBD 001
CCBD1 *	Δ8- Tetrahydrocannabinol (Δ8 -THC)	<0.0025 %		0.0025 %	CBD 001
CCBD1 *	Δ9- Tetrahydrocannabinol (Δ9 -THC)	<0.0025 %		0.0025 %	CBD 001
JCSRA †	1,1,1,2-Tetrachloroethane	<0,01 mg/kg		0.01	
JCSRA †	1,1,1-Trichloroethane	<0,01 mg/kg		0.01	
JCSRA †	1,1,2-Trichloroethane	<0,01 mg/kg		0.01	



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JCSRA	†	1,1-Dichloroethane	<0,05	mg/kg	0.05
JCSRA	†	1,2-Dichloroethane	<0,05	mg/kg	0.05
JCSRA	†	2-Butanon (Methylethylketon)	<1	mg/kg	1
JCSRA	†	2-Methylpentane	<1	mg/kg	1
JCSRA	†	3-Methylpentane	<1	mg/kg	1
JCSRA	†	Benzene	<0,01	mg/kg	0.01
JCSRA	†	Bromodichloromethane	<0,05	mg/kg	0.05
JCSRA	†	Chloroform (Trichloromethane)	<0,01	mg/kg	0.01
JCSRA	†	cis-Dichloroethene	<0,05	mg/kg	0.05
JCSRA	†	Dibromochloromethane	<0,05	mg/kg	0.05
JCSRA	†	Dichloromethane	<0,05	mg/kg	0.05
JCSRA	†	Ethyl Acetate	<1	mg/kg	1
JCSRA	†	Ethylbenzene	<0,01	mg/kg	0.01
JCSRA	†	m-/p-Xylene	0.023	mg/kg	0.01
JCSRA	†	Methyl acetate	<1	mg/kg	1
JCSRA	†	Methylcyclopentane	<1	mg/kg	1
JCSRA	†	n-Heptane	<1	mg/kg	1
JCSRA	†	n-Hexane	<1	mg/kg	1
JCSRA	†	n-Pentane	<1	mg/kg	1
JCSRA	†	Styrene	0.015	mg/kg	0.01
JCSRA	†	Sum 3 chlorinated solvents	Nicht berechenbar	mg/kg	
JCSRA	†	Technical Hexane (calculated)	Nicht berechenbar	mg/kg	
JCSRA	†	Tetrachloroethene	<0,01	mg/kg	0.01
JCSRA	†	Tetrachloromethane	<0,01	mg/kg	0.01
JCSRA	†	Toluene	0.026	mg/kg	0.01
JCSRA	†	trans-Dichloroethene	<0,05	mg/kg	0.05
JCSRA	†	Tribromomethane	<0,05	mg/kg	0.05
JCSRA	†	Trichloroethene	<0,01	mg/kg	0.01
JCSRA	†	Xylene (ortho-)	<0,01	mg/kg	0.01

Comments

Sample contains 10.25mg of CBD.

Analysis performed: PSP47: Pesticide Screening in Fats & Oils (medium)
PUD25: Heavy Metals (Lead, Cadmium, Arsenic, Mercury)
CCBD1: Quantification of cannabinoids
JCSRA: Solvent residues (big scope)
RM254: Ochratoxin A
RMA00: Sample preparation Chemistry
RMM04: Aflatoxin (B1.B2.G1.G2)



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The following residues were sought but not detected above their reporting limits (mg/kg)

Organonitrogen Pesticides and others (GC-MS) - SP411 - (DFG-S19)

2-Phenylphenol (0.03)	Alachlor (0.03)	Ametryn (0.03)	Aminocarb (0.03)	Atrazine (0.03)	Benalaxyl (0.03)
Bendiocarb (0.03)	Biphenyl (0.03)	Bitteranol (0.03)	Bromacil (0.03)	Bromopropylate (0.03)	Bupirimate (0.03)
Buprofezin (0.03)	Carbaryl (0.03)	Carbofuran (0.03)	Chloridazone (0.03)	Chlorobenzilate/Chloropropylate (0.03)	Chlorpropham (0.03)
Cyanazine (0.03)	Cyproconazole (0.03)	Desmetyrn (0.03)	Dichlobenil (0.03)	Dichlofluanid (0.03)	Dimethylaminosulphotoluidide (DMST) (0.03)
Dimethylphenylsulfamide (DMSA) (0.03)	Dioxacarb (0.03)	Diphenylamine (0.03)	Etofenprox (0.03)	Fenarimol (0.03)	Fenazaquin (0.03)
Fenoxycarb (0.03)	Fenproimorph (0.03)	Fluazifop-P-butyl (0.03)	Flusilazole (0.03)	Furathiocarb (0.03)	Hexaconazole (0.03)
Hexazinone (0.03)	Iprodione (0.03)	Lenacil (0.03)	Metalaxyl (0.03)	Methabenzthiazuron (0.03)	Methiocarb (0.03)
Metolachlor (0.03)	Metribuzin (0.03)	Myclobutanil (0.03)	Oxadiazon (0.03)	Oxadixyl (0.03)	Penconazole (0.03)
Pendimethalin (0.03)	Piperonyl butoxide (0.03)	Pirimicarb (0.03)	Pirimicarb, desmethyl- (0.03)	Procymidone (0.03)	Promecarb (0.03)
Prometryn (0.03)	Propachlor (0.03)	Propargite (0.03)	Propazine (0.03)	Propham (0.03)	Propiconazole (0.03)
Propoxur (0.03)	Propyzamide (0.03)	Pyrimethanil (0.03)	Sebutylazine (0.03)	Sedaxane (0.03)	Simazine (0.03)
Tebuconazole (0.03)	Teflubenzuron (0.03)	Terbutylazine (0.03)	Terbutryn (0.03)	Tetradifon (0.03)	Tetrahydrophthalimide (THPI) (0.03)
Tolyfluanid (0.03)	Triadimefon (0.03)	Triadimenol (0.03)	Trifluzole (0.03)	Trifluriduron (0.03)	Trifluralin (0.03)
Trinexapac-ethyl (0.03)	Vinclozolin (0.03)				

Organochlorine Pesticides and Pyrethroids (GC-ECD) - SP421 - (DFG-S19)

2,3,4,6-Tetrachloranisole (0.005)	Aclonifen (0.01)	Acrinathrin (0.05)	Aldrin (0.005)	Benfluralin (0.005)	Benzoylprop-ethyl (0.01)
Bifenox (0.02)	Bifenthrin (0.05)	Binapacryl (0.02)	Bromocyclen (0.01)	Bromoxynil-octanoate (0.01)	Butralin (0.02)
Chlordane, cis- (0.005)	Chlordane, oxy- (0.005)	Chlordane, trans- (0.005)	Chlorfenapyr (0.01)	Chlorfenprop-methyl (0.02)	Chlorfenson (0.01)
Chloroneb (0.02)	Chlorothalonil (0.01)	Chlorthal-dimethyl (0.005)	Cyfluthrin (0.05)	Cyhalothrin, lambda-(incl. Cyhalothrin, gamma-) (0.05)	Cypermethrin (0.05)
Cyphenothrin (0.05)	DDD, o,p- (0.005)	DDD, p,p'- (0.005)	DDE, o,p- (0.005)	DDE, p,p'- (0.005)	DDT, o,p'- (0.005)
DDT, p,p'- (0.005)	Deltamethrin (0.05)	Dibromobenzophenone, p,p- (0.02)	Dichlobenil (0.01)	Dichlorobenzophenone, o,p- (0.02)	Dichlorobenzophenone, o,p- (0.02)
Dichlorobenzophenone, p,p- (0.02)	Dicloran (0.005)	Dicofol, o,p- (0.02)	Dicofol, p,p- (0.02)	Dieldrin (0.005)	Dienochlor (0.01)
Dinitramine (0.01)	Dinobuton (0.02)	Endosulfan sulphate (0.01)	Endosulfan, alpha- (0.005)	Endosulfan, beta- (0.005)	Endrin (0.005)
Endrin ketone (0.01)	Ethallfluralin (0.01)	Etridiazole (0.01)	Fenfluthrin (0.05)	Fenpropathrin (0.05)	Fenson (0.01)
Fenvalerate (RR-/SS-Isomers) (0.05)	Fenvalerate (RS-/SR-Isomers) (0.05)	Flubenzimine (0.01)	Fluchloralin (0.01)	Flucythrinate (0.05)	Flumetralin (0.01)
Fluorodifen (0.01)	Fluoroimide (0.02)	Genite (0.01)	Halfepprox (0.05)	HCH, alpha- (0.005)	HCH, beta- (0.005)
HCH, delta- (0.005)	HCH, epsilon- (0.005)	Heptachlor (0.005)	Heptachlor epoxide, cis- (0.005)	Heptachlor epoxide, trans- (0.005)	Hexachlorobenzene (HCB) (0.005)
Isoxynil-octanoate (0.01)	Isobenzan (0.005)	Isodrin (0.005)	Isopropalin (0.01)	Lindane (gamma-HCH) (0.005)	Methoxychlor (0.01)
Mirex (0.005)	Nitrapyrin (0.01)	Nitrofen (0.01)	Nonachlor, trans- (0.005)	Octachlorstyrene (0.005)	Oxyfluorfen (0.01)
Pendimethalin (0.01)	Pentachloranisole (0.005)	Pentachloroaniline (0.005)	Pentachlorobenzene (0.01)	Pentachlorothioanisole (0.005)	Permethrin (0.05)
Plifenate (0.02)	Polychloroterpene (Camphechlor) (0.5)	Profluralin (0.005)	Quintozene (0.005)	S 421 (0.01)	tau-Fluvalinate (0.05)
Tecnazene (0.005)	Tefluthrin (0.05)	Tetradifon (0.01)	Tetrasul (0.01)	Tralomehrin (0.05)	Transfluthrin (0.05)
Triallate (0.02)	Trichloronat (0.01)	Trifluralin (0.005)			

Organophosphorus Pesticides (GC-FPD) - SP424 - (DFG-S19)

Acephate (0.02)	Azinphos-ethyl (0.05)	Azinphos-methyl (0.05)	Bromfenvinphos (0.02)	Bromophos-ethyl (0.02)	Bromophos-methyl (0.02)
Butamifos (0.02)	Cadusaphos (0.02)	Carbophenothion (0.02)	Carbophenothion-methyl (0.02)	Chlorfenvinphos (0.02)	Chlormephos (0.02)
Chlorpyrifos (-ethyl) (0.01)	Chlorpyrifos-methyl (0.01)	Chlorthion (0.02)	Chlorthiophos (0.02)	Coumaphos (0.1)	Crotoxyphos (0.02)
Cruformate (0.02)	Cyanofenphos (0.05)	Cyanophos (0.02)	Demeton-S-methyl (0.05)	Demeton-S-methyl-sulfone (0.1)	Dialifos (0.02)
Diazinon (0.02)	Dicaphon (0.02)	Dichlorfenthion (0.02)	Dichlorvos (0.02)	Dicrotophos (0.02)	Dimefox (0.02)
Dimethoate (0.02)	Dimethylvinphos (0.02)	Dioxabenzofos (0.02)	Dioxathion (0.05)	Disulfoton (0.05)	Disulfoton-sulfon (0.05)
Disulfoton-sulfoxide (0.05)	Ditalimfos (0.02)	Edifenphos (0.05)	Ethion (0.02)	Ethoprophos (0.02)	Etrifimos (0.02)
Fenamiphos (0.02)	Fenamiphos-sulfone (0.05)	Fenamiphos-sulfoxide (0.05)	Fenchlorphos (0.02)	Fenchlorphos oxon (0.05)	Fenitrothion (0.02)
Fensulfothion (0.02)	Fensulfothion-oxon-sulfone (0.05)	Fensulfothion-oxon-sulfoxide (0.05)	Fensulfothion-sulfone (0.05)	Fenthion (0.02)	Fenthion-oxon-sulfone (0.05)
Fenthion-oxon-sulfoxide (0.05)	Fenthion-sulfone (0.05)	Fenthion-sulfoxide (0.05)	Fonofos (0.02)	Formothion (0.02)	Fosthiatate (0.05)
Fosthiatate (0.02)	Heptenophos (0.02)	Iodofenphos (0.05)	Iprobenfos (0.02)	Isazophos (0.02)	Isocarbafos (0.02)
Isofenphos (0.02)	Isofenphos-methyl (0.02)	Isoxathion (0.05)	Leptophos (0.05)	Malaaxon (0.02)	Malathion (0.02)
Mecarbam (0.02)	Mephosfolan (0.02)	Morphos (0.05)	Methacriphos (0.02)	Methamidophos (0.02)	Methidathion (0.02)
Mevinphos (0.02)	Monocrotophos (0.02)	Morphothion (0.05)	Omethoate (0.02)	Oxydemeton-methyl (0.1)	Paraaxon-ethyl (0.02)
Paraaxon-methyl (0.02)	Parathion (0.02)	Parathion-methyl (0.02)	Phenkapton (0.05)	Phenthoate (0.02)	Phorate (0.02)
Phorate-sulfone (0.05)	Phorate-sulfoxide (0.05)	Phosalone (0.05)	Phosmet (0.05)	Phosphamidon (0.02)	Pirimiphos-ethyl (0.02)
Pirimiphos-methyl (0.02)	Profenofos (0.02)	Propaphos (0.02)	Propetamphos (0.02)	Prothiofos (0.02)	Prothoate (0.02)
Pyraclafos (0.05)	Pyrazophos (0.05)	Pyridaphenthion (0.02)	Quinalphos (0.02)	Quintiofos (0.02)	Sulfotep (0.02)
Sulprofos (0.05)	TEPP (0.02)	Terbufos (0.02)	Terbufos-sulfone (0.05)	Tetrachlorvinphos (0.02)	Thiometon (0.02)
Toxiclofos-methyl (0.02)	Triamphos (0.05)	Triazophos (0.02)	Trichlorfon (0.1)	Vamidothion (0.05)	

Indicates recovery outside acceptable range of 60 - 140 %

† This compound was screened for however, the QC data were considered unacceptable.



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¹ UD: analysis performed at Eurofins Food Testing UK Ltd (Wolverhampton)

† Indicates that the analysis was subcontracted and accredited to ISO 17025

* Indicates the Parameter is not included in the UKAS accreditation schedule for the laboratory

Opinions and interpretations within this report are outside our accreditation scope.

Unless otherwise stated, all results are expressed on a sample as received basis.

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Key: cfu colony forming units
< denotes less than
> denotes greater than
~ estimated value



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