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Point of Contact: Quality Control Manager

Sample Name: Sample 20201104-1  
 Sample ID: Sample 20201104-1  
 Batch No.: 77  
 Sample Type: Mixture of CBD frac.

Date Collected: 2020-11-04  
 Date Received: 2020-11-04  
 Date Analyzed: 2020-11-04

**Overall result for Batch 77: Pass**

Microbials

Approved

Mycotoxins

Approved

Pesticides

Approved

Heavy Metals

Approved

Solvents

Approved

## Relative concentration of cannabinoids

Analyzed by HPLC

	Target, %	Result, %
CBD	≥15	15,791
D9-THC + D8-THC	≤0,2	0,168

Pass

Total Quantity of Cannabinoids:	16,826
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Compound	Mass, %	Quantity, mg/g	Relative concentration, %
CBD	15,791	157,910	15,791
CBDa	<LOD	<LOD	0,000
CBDV	<LOD	<LOD	0,000
CBG	0,409	4,090	0,409
CBGa	<LOD	<LOD	0,000
CBC	0,327	3,270	0,327
CBN	0,131	1,310	0,131
D8-THC	<LOD	<LOD	0,000
D9-THC	0,168	1,680	0,168
THCa	<LOD	<LOD	0,000
THCV	<LOD	<LOD	0,000

\*Total CBD = 0,877 x CBDa + CBD; Total THC = 0,877 x THCa + D9-THC + D8-THC

*Dr. SPs*

Quality Control

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## Terpenes

Analyzed by GC/FID

Compound	Mass, %	Quantity, mg/g	Relative concentration
$\alpha$ -Pinene	0,68	6,75	 0,68
Camphene	<LOD	<LOD	0,00
$\beta$ -Myrcene	0,21	2,05	 0,21
$\beta$ -Pinene	<LOD	<LOD	0,00
$\delta$ -3-Carene	<LOD	<LOD	0,00
$\alpha$ -Terpinene	<LOD	<LOD	0,00
Ocimene 1	<LOD	<LOD	0,00
D-Limonene	0,75	7,50	 0,75
<i>p</i> -Cymene	<LOD	<LOD	0,00
Ocimene 2	<LOD	<LOD	0,00
Eucalyptol	<LOD	<LOD	0,00
$\gamma$ -Terpinene	<LOD	<LOD	0,00
Terpinolene	<LOD	<LOD	0,00
Linalool	0,15	1,45	 0,15
Geraniol	<LOD	<LOD	0,00
$\beta$ -Caryophyllene	0,03	0,33	 0,03
$\alpha$ -Humulene	<LOD	<LOD	0,00
Guaiol	<LOD	<LOD	0,00
<b>Total:</b>	<b>1,808</b>	<b>18,08</b>	

*Dr. SPa*

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## Residual Solvents

Analyzed by GC/FID

Pass

Element	LOQ, PPM	Limit, PPM	ss, PPM	Status
n-Pentane	58	500	<LOQ	Pass
Ethanol	58	500	<LOQ	Pass
Diethyl ether	58	500	<LOQ	Pass
Acetone	58	500	<LOQ	Pass
2-Propanol	58	500	<LOQ	Pass
1-Propanol	58	500	<LOQ	Pass
Ethyl acetate	58	500	<LOQ	Pass
2-Butanol	58	500	<LOQ	Pass
Isobutanol	58	500	<LOQ	Pass
n-Heptane	58	500	<LOQ	Pass
1-Butanol	58	500	<LOQ	Pass
Propyl acetate	58	500	<LOQ	Pass
1-Pentanol	58	500	<LOQ	Pass
Butyl acetate	58	500	<LOQ	Pass

## Microbials

Analyzed by:  
 ISO 4833-1:2013;  
 ISO 21527-2:2009;  
 ISO 9308-1:2014

Pass

Component	Limit, CFU/g	Mass, CFU/g	Status
Yeast	<10	<10	Pass
Molds	<10	<10	Pass
E. Coli.	N.D.	N.D.	Pass
Salmonella	N.D.	N.D.	Pass

## Mycotoxins

Analyzed by:  
 SDP 5.4.4. CH.20

Pass

Mycotoxin	LOQ, PPB	Limit, PPB	Mass, PPB	Status
Aflatoxins	4	20	<LOQ	Pass
Ochratoxin A	2	20	<LOQ	Pass

## Heavy Metals

Analyzed by:  
 EN 14084:2003

Pass

Element	LOQ, PPB	Limit, PPB	Mass, PPB	Status
Arsenic	56	2000	<LOQ	Pass
Cadmium	56	820	<LOQ	Pass
Lead	56	1200	<LOQ	Pass
Mercury	56	400	<LOQ	Pass

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## Pesticides

Analyzed by EN 15662:2008

Acrinathrin Azoxystrobin Biphenhin Bitertanol Biphenyl Bromopropylate Bromuconazole Bupirimate Cadusafos Captafol Captan Chlorphenson Chlorfenapyr Chlorfenvinphos Chlorothalonil Chlorprophame 3,5-Dichloraniline Chlorpyrifos Chlorpyrifos-methyl Chlorthal-dimethyl Cyfluthrin Cypermethrin Cyproconazole Cyprodinil Clomazone o,p-DDE P,P-DDE o,p-DDD P,P-DDD o,p-DDT p,p-DDT Deltamethri Diazinon Diclofop-methyl Dieldrin Dichlobenil Dichlofluanid Dichlorvos Dicloran Dicofof Dicrotophos Diethofencarb Diflubenzuron Dimetachlor Diniconazole Dodemorph Diphenylamine Alpha-Endosulfan Beta-Endosulfan Endosulfan-sulphate Ethion Etofumesate Ethoprophos Ehtoxyquin Etoxazole Etridiazole Etrimphos Famoxadone Fenarimol Fenazaquin Fenchlorphos Fenhexamid Fenithothion Fenpropidin Fenpropimorph Fenvalerate Formothion Fipronil Fipronil-sulfone Fludioxonil Flusilazole Flutriafol Folpet Fuberidazole Furathiocarb Hexaconazole HCB Alpha-HCH Beta-HCH Delta-HCH Heptachlor Heptachlor-epoxidceis Heptachlorepoxytreans Iprodione Iprovalicarb Lambda-cyhalothrin Lindane Mecarbam Metalaxv Metazachlor Methidathion Metribuzin Mevinphos Myclobutanil Nuarimol Orthophenylphenol Oxadixyl Paclobutrazol Parathion Parathion-methyl Paraoxonmethyl Paraoxon-ethyl Penconazole Pendimethaline Permethrin Phenthoate Phorate Procymidone Profenofos Propiconazole Propyzamide Pyrazophos Pyrethrins Pyridaben Pyrimethanil Pyriproxyfen Quinoxifen Quitozene Pentachloraniline Phosphamidon Pyrifenox Prometryn Propanil Propoxur Proquinazid Prothiofos Simazine Spiroxamine T au-fluvalinate T ebuconazole T ebufenpyrad T ecnazene T efluthrin T erbuthylazine T etraconazole T etradifon T etramethrine T olclofos-methyl T olyfluanid Transfluthrin Triadimephon Triadimenol Trialate Trifloxystrobin Triflumizole Vinclozolin DDT isomersum Heptachlor (heptachloarnd heptachloer poxidsum) Trifluraline Chlorbenzilate 3-Chloraniline Abamectin (AvermectinBla and AvermectinBlb sum) Acetamidrid Aldicarb Aldikarbsulphone Aldikarbsulphoxide Azinphos-ethyl Azinphos-methyl Benalaxyl Benfuracarb Boscalid Buprofezin Carbaryl Carbendazim Carbofuran 3-hydroksicarbofuran Carbosulfan Chloridazon Cymoxanil Clofentezin Clothianidin Demeton-S-methyl Demeton-S-methylsulfoxid Diafenthion Difenconazole Dimethoate Dimethomorph Diuron EPN Epoxiconazole Ethirimol Etofenprox Fenamidone Fenbuconazole Fenbutatinoxid Fenoxycarb Fenpyroximate Fenpropathrin Fensulfotion Fenthion Fenthionsulphone Fenthionsulphoxide Fluazinam Flufenoxuron Fluquinconazole Fonofos Formetanate Fosthiazate Hexythiazox Imazalil Imidaclopid Indoxacarb Isufenphos Methacrifos Isufenphosmethyl Krezoxim-methyl Linuron Lufenuron Malaaxon Malathion Mepanipirim Mepronil Metamitron Metconazole Methamidophos Methiocarb Methiocarbsulphone Methiocarbsulfoxide Methomyl Methoxyfenozide Metobromuron Monocrotophos Monolinuron Omethoate Oxamyl Pencycuron Phenmedipham Phosalone Phosmet Phosmeot xon Phoxim Pymetrozine Piperonylbutoxide Pyraclostrobin Pyridaphenthion Pyridate Pyrifenox Pirimicarb Pirimicarbdesmethyl Pirimiphos-methyl Primisulfuron-methyl Prochloraz Propamocarb Propargite Prothioconazole Prothioconazole-desthio Quinalphos SpinosynA SpinosynD Sulfotep T ebufenozide T eflubenzuron Thiabendazole Thiachlorid Thiamethoxam Thiodicar Thiophanatemethyl Tralkoxydim Triazophos Trichlorfon Triflumuron Triflorine Triticonazole Zoxamide Acephate Amitraz Fenamiphos Fenamiphosulphone Fenamiphosulfoxid Nitempiram Fenthionoxonsulphone Fenthionoxonsulfoxid Kumapho Piriiphenox Mehibuzine DEET

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