QA Testing

PharmLabs San Diego Certificate of Analysis

Sample **Pharma Hemp Suppository 25mg**

Sample ID **SD181012-015 (30718)**	Matrix **Other**	Batch ID/Lot ID **O3-1**
Tested for **MCNB Holding Corporation**		
Sampled **-** Received **Oct 12, 2018**	Reported **Oct 19, 2018**	
Analyses executed **CAN, TER, MIBNIG, PES**		Unit Mass (g) **2.215**

CAN - Cannabinoids Analysis

Analyzed **Oct 16, 2018** | Instrument **HPLC-VWD** | Method **SOP-001**

The expanded Uncertainty of the Cannabinoid analysis is approximately **9.806**% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g	Result mg/Unit
Cannabidiolic Acid (CBDA)	0.001	0.16	0.00	0.01	0.02
Cannabigerol (CBG)	0.001	0.16	ND	ND	ND
Cannabidiol (CBD)	0.001	0.16	1.07	10.71	23.72
Cannabinol (CBN)	0.001	0.16	ND	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	0.00	0.02	0.04
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	NT	NT	NT
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.126	0.42	NT	NT	NT
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.118	0.39	NT	NT	NT
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	ND	ND	ND
Total THC (THCa * 0.877 + Δ9THC)			**0.00**	**0.02**	**0.04**
Total CBD (CBDa * 0.877 + CBD)			**1.07**	**10.72**	**23.74**
Total Cannabinoids Analyzed			**1.07**	**10.74**	**23.79**

MIBNIG - Microbial Analysis

Analyzed **Oct 18, 2018** | Instrument **Plating** | Method **SOP-007**

Analyte	LOD	LOQ	Result CFU/g	Limit	Analyte	LOD	LOQ	Result CFU/g	Limit
Shiga toxin-producing Escherichia Coli			Negative	ND per 1 gram	Salmonella spp.			Negative	ND per 1 gram

UI Unidentified
ND Not Detected
N/A Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Quantification
<LOQ Detected
>ULOL Above upper limit of linearity
CFU/g Colony Forming Units per 1 gram
TNTC Too Numerous to Count

PJLA Testing
Acc. #85368

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DEA license: RP0611043
ISO/IEC 17025:2017 Acc. L17-427-1

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PES - Pesticides Analysis

Analyzed **Oct 18, 2018** | Instrument **LC/MSMS GC/MSMS** | Method **SOP-003**

CAPPELLE	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Aldicarb	0.01	0.02	ND	0	Carbofuran	0.01	0.02	ND	0
Dimethoate	0.01	0.02	ND	0	Etofenprox	0.02	0.1	ND	0
Fenoxycarb	0.01	0.02	ND	0	Thiachloprid	0.01	0.02	ND	0
Daminozide	0.01	0.03	ND	0	Dichlorvos	0.02	0.07	ND	0
Imazalil	0.02	0.07	ND	0	Methiocarb	0.01	0.02	ND	0
Spiroxamine	0.01	0.02	ND	0	Coumaphos	0.01	0.02	ND	0
Fipronil	0.01	0.1	ND	0	Paclobutrazol	0.01	0.03	ND	0
Chlorpyrifos	0.01	0.04	ND	0	Ethoprophos (Prophos)	0.01	0.02	ND	0
Baygon (Propoxur)	0.01	0.02	ND	0	Chlordane	0.04	0.1	ND	0
Chlorfenapyr	0.03	0.1	ND	0	Methyl Parathion	0.02	0.1	ND	0
Mevinphos	0.03	0.08	ND	0	Abamectin	0.03	0.08	ND	0.3
Acephate	0.02	0.05	ND	5	Acetamiprid	0.01	0.05	ND	5
Azoxystrobin	0.01	0.02	ND	40	Bifenazate	0.01	0.05	ND	5
Bifenthrin	0.02	0.35	ND	0.5	Boscalid	0.01	0.03	ND	10
Carbaryl	0.01	0.02	ND	0.5	Chlorantraniliprole	0.01	0.04	ND	40
Clofentezine	0.01	0.03	ND	0.5	Diazinon	0.01	0.02	ND	0.2
Dimethomorph	0.02	0.06	ND	20	Etoxazole	0.01	0.05	ND	1.5
Fenpyroximate	0.02	0.1	ND	2	Flonicamid	0.01	0.02	ND	2
Fludioxonil	0.01	0.05	ND	30	Hexythiazox	0.01	0.03	ND	2
Imidacloprid	0.01	0.05	ND	3	Kresoxim-methyl	0.01	0.03	ND	1
Malathion	0.01	0.05	ND	5	Metalaxyl	0.01	0.02	ND	15
Methomyl	0.02	0.05	ND	0.1	Myclobutanil	0.02	0.07	ND	9
Naled	0.01	0.02	ND	0.5	Oxamyl	0.01	0.02	ND	0.2
Permethrin	0.01	0.02	ND	20	Phosmet	0.01	0.02	ND	0.2
Piperonyl Butoxide	0.02	0.06	ND	8	Propiconazole	0.03	0.08	ND	20
Prallethrin	0.02	0.05	ND	0.4	Pyrethrin	0.05	0.41	ND	1
Pyridaben	0.02	0.07	ND	3	Spinosad A	0.01	0.05	ND	3
Spinosad D	0.01	0.05	ND	3	Spiromesifen	0.02	0.06	ND	12
Spirotetramat	0.01	0.02	ND	13	Tebuconazole	0.01	0.02	ND	2
Thiamethoxam	0.01	0.02	ND	4.5	Trifloxystrobin	0.01	0.02	ND	30
Acequinocyl	0.02	0.09	ND	4	Captan	0.01	0.02	ND	5
Cypermethrin	0.02	0.1	ND	1	Cyfluthrin	0.04	0.1	ND	1
Fenhexamid	0.02	0.07	ND	10	Spinetoram J,L	0.02	0.07	ND	3
Pentachloronitrobenzene	0.01	0.1	ND	0.2	Chlormequat Chloride	0.02	0.1	NT	0.2

TER - Terpenes Analysis

Analyzed **Oct 18, 2018** | Instrument **GC/FID** | Method **SOP-002**

Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)	Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)
a-Pinene (a-Pin)	0.128	0.427	0.06	0.55	Camphene (Cam)	0.147	0.492	ND	ND
Myrcene (Myr)	0.073	0.244	0.01	0.06	b-Pinene (b-Pin)	0.413	1.377	0.00	0.03
3-Carene (3-Car)	0.11	0.366	0.03	0.29	a-Terpinene (a-Ter)	0.099	0.331	0.01	0.12
a-Ocimene (a-Oci)	0.055	0.182	0.00	0.02	Limonene (Lim)	0.081	0.268	0.01	0.14
p-Cymene (p-Cym)	0.104	0.347	0.01	0.13	b-Ocimene (b-Oci)	0.085	0.282	0.01	0.06
Eucalyptol (Euc)	0.19	0.634	ND	ND	g-Terpinene (g-Ter)	0.108	0.361	0.02	0.22
Terpenolene (Terp)	0.119	0.395	0.01	0.05	Linalool (Lin)	0.146	0.487	ND	ND
Isopulegol (Isop)	0.139	0.464	ND	ND	Geraniol (Gera)	0.177	0.589	ND	ND
b-Caryophyllene (b-Cary)	0.132	0.44	ND	ND	a-Humulene (Hum)	0.183	0.608	ND	ND
cis-Nerolidol (ci-Ner)	0.129	0.431	ND	ND	trans-Nerolidol (tr-Ner)	0.093	0.31	ND	ND
Guaiol (Gua)	0.15	0.499	ND	ND	Caryophyllene Oxide (CarOx)	0.183	0.611	ND	ND
a-bisabolol (a-Bbis)	0.159	0.529	ND	ND					
					Total Terpene Concentration			**0.17 %**	**1.67 mg/g**

UI Unidentified
ND Not Detected
N/A Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Quantification
<LOQ Detected
>ULOL Above upper limit of linearity
CFU/g Colony Forming Units per 1 gram
TNTC Too Numerous to Count

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