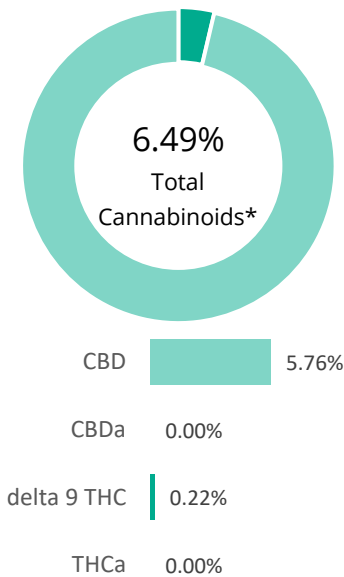


## Hemp Dog 1500mg/30ml

<b>Batch ID:</b>	0544592-98	<b>Test ID:</b>	T000140204
<b>Type:</b>	Concentrate	<b>Submitted:</b>	05/12/2021 @ 12:00 PM
<b>Test:</b>	Potency	<b>Started:</b>	5/14/2021
<b>Method:</b>	TM14	<b>Reported:</b>	5/17/2021

## CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	0.22	2.2
Cannabidiolic acid (CBDA)	0.01	ND	ND
Cannabidiol (CBD)	0.01	5.76	57.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.01	ND	ND
Cannabinol (CBN)	0.00	0.01	0.1
Cannabigerolic acid (CBGA)	0.02	ND	ND
Cannabigerol (CBG)	0.00	0.22	2.2
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.00	0.02	0.2
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.01	0.26	2.6
<b>Total Cannabinoids</b>		<b>6.49</b>	<b>64.9</b>
Total Potential THC**		0.22	2.2
Total Potential CBD**		5.76	57.6

## NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$


$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

ND = None Detected (Defined by Dynamic Range of the method)

## FINAL APPROVAL


 Rvan Weems  
 17-May-2021  
 3:49 PM

PREPARED BY / DATE


 Daniel Weidensaul  
 17-May-2021  
 3:54 PM

APPROVED BY / DATE

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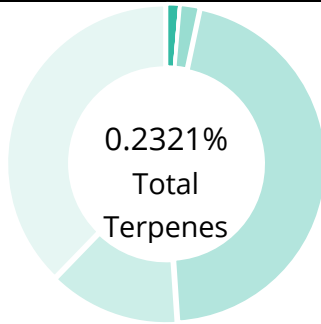


Certificate #4329.02

## Hemp Dog 1500mg/30ml

<b>Batch ID:</b>	0544592-98	<b>Test ID:</b>	T000140205
<b>Type:</b>	Concentrate	<b>Submitted:</b>	05/12/2021 @ 12:00 PM
<b>Test:</b>	Terpenes	<b>Started:</b>	5/14/2021
<b>Method:</b>	TM22	<b>Reported:</b>	5/17/2021

## TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0840	0.840
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.1015	1.015
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0296	0.296
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0044	0.044
beta-Myrcene	0.0030	0.030
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0041	0.041
Ocimene	0.0000	0.000
beta-Ocimene	0.0009	0.009
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0046	0.046
<b>Total</b>	<b>0.2321</b>	<b>2.321</b>

## PREDOMINANT TERPENES

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0030
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0000
Linalool	0.0044
beta-Caryophyllene	0.1015
alpha-Humulene	0.0296
(-)-alpha-Bisabolol	0.0840

## NOTES:

N/A

## FINAL APPROVAL



 Daniel Weidensaul  
 17-May-2021  
 5:17 PM



 Ryan Weems  
 17-May-2021  
 5:19 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

## Hemp Dog 1500mg/30ml


<b>Batch ID:</b>	0544592-98	<b>Test ID:</b>	t000140208
<b>Type:</b>	Other	<b>Submitted:</b>	05/12/2021 @ 12:00 PM
<b>Test:</b>	Metals	<b>Started:</b>	5/17/2021
<b>Method:</b>	TM19	<b>Reported:</b>	5/19/2021

## HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.044 - 4.37	ND
Cadmium	0.043 - 4.29	ND
Mercury	0.042 - 4.17	ND
Lead	0.041 - 4.12	ND

\* ND = None Detected (Defined by Dynamic Range of the method)

## FINAL APPROVAL

  
Michele Gagnon  
19-May-2021  
11:04 AM

PREPARED BY / DATE

  
Ryan Weems  
19-May-2021  
11:07 AM

APPROVED BY / DATE

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## Hemp Dog 1500mg/30ml

<b>Batch ID:</b>	0544592-98	<b>Test ID:</b>	T000140206
<b>Type:</b>	Concentrate	<b>Submitted:</b>	05/12/2021 @ 12:00 PM
<b>Test:</b>	Pesticides	<b>Started:</b>	5/18/2021
<b>Method:</b>	TM17	<b>Reported:</b>	5/19/2021

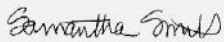
## PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	45 - 2724	ND*	Malathion	321 - 2724	ND*
Acetamiprid	43 - 2724	ND*	Metalaxyl	48 - 2724	ND*
Abamectin	>409	ND*	Methiocarb	46 - 2724	ND*
Azoxystrobin	50 - 2724	ND*	Methomyl	45 - 2724	ND*
Bifenazate	31 - 2724	ND*	MGK 264 1	189 - 2724	ND*
Boscalid	51 - 2724	ND*	MGK 264 2	128 - 2724	ND*
Carbaryl	43 - 2724	ND*	Myclobutanil	46 - 2724	ND*
Carbofuran	47 - 2724	ND*	Naled	43 - 2724	ND*
Chlorantraniliprole	54 - 2724	ND*	Oxamyl	44 - 2724	ND*
Chlorpyrifos	54 - 2724	ND*	Paclbutrazol	47 - 2724	ND*
Clofentezine	326 - 2724	ND*	Permethrin	283 - 2724	ND*
Diazinon	325 - 2724	ND*	Phosmet	47 - 2724	ND*
Dichlorvos	>299	ND*	Prophos	325 - 2724	ND*
Dimethoate	46 - 2724	ND*	Propoxur	47 - 2724	ND*
E-Fenpyroximate	319 - 2724	ND*	Pyridaben	315 - 2724	ND*
Etofenprox	44 - 2724	ND*	Spinosad A	32 - 2724	ND*
Etoxazole	339 - 2724	ND*	Spinosad D	92 - 2724	ND*
Fenoxycarb	>48	ND*	Spiromesifen	>322	ND*
Fipronil	50 - 2724	ND*	Spirotetramat	>338	ND*
Flonicamid	50 - 2724	ND*	Spiroxamine 1	21 - 2724	ND*
Fludioxonil	>309	ND*	Spiroxamine 2	26 - 2724	ND*
Hexythiazox	39 - 2724	ND*	Tebuconazole	338 - 2724	ND*
Imazalil	301 - 2724	ND*	Thiacloprid	45 - 2724	ND*
Imidacloprid	45 - 2724	ND*	Thiamethoxam	42 - 2724	ND*
Kresoxim-methyl	51 - 2724	ND*	Trifloxystrobin	49 - 2724	ND*

\* ND = None Detected (Defined by Dynamic Range of the method)

N/A

## FINAL APPROVAL



 Sam Smith  
 19-May-2021  
 4:08 PM



 Michele Gagnon  
 19-May-2021  
 4:10 PM

PREPARED BY / DATE

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## Hemp Dog 1500mg/30ml

<b>Batch ID:</b>	0544592-98	<b>Test ID:</b>	T000140207
<b>Type:</b>	Concentrate	<b>Submitted:</b>	05/12/2021 @ 12:00 PM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	5/13/2021
<b>Method:</b>	TM24, TM25, TM26, TM27, TM28	<b>Reported:</b>	5/17/2021

## MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b>E. coli</b>	Absent
<b>E. coli (STEC)</b>	Absent
<b>Salmonella</b>	Absent

\* CFU/g = Colony Forming Unit per Gram

\*\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

## NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected


Total Aerobic: None Detected

Coliforms: None Detected

## FINAL APPROVAL

  
Robert Belfon  
17-May-2021  
2:54 PM

PREPARED BY / DATE

  
Sarah Henning  
17-May-2021  
2:56 PM

APPROVED BY / DATE

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Certificate #4329.03

## Hemp Dog 1500mg/30ml

<b>Batch ID:</b>	0544592-98	<b>Test ID:</b>	T000140209
<b>Type:</b>	Concentrate	<b>Submitted:</b>	05/12/2021 @ 12:00 PM
<b>Test:</b>	Residual Solvents	<b>Started:</b>	5/18/2021
<b>Method:</b>	TM04	<b>Reported:</b>	5/18/2021

## RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
<b>Propane</b>	83 - 1666	*ND
<b>Butanes</b> (Isobutane, n-Butane)	165 - 3306	*ND
<b>Methanol</b>	56 - 1127	*ND
<b>Pentane</b>	86 - 1720	*ND
<b>Ethanol</b>	85 - 1696	85
<b>Acetone</b>	89 - 1771	*ND
<b>Isopropyl Alcohol</b>	94 - 1890	*ND
<b>Hexane</b>	6 - 116	*ND
<b>Ethyl Acetate</b>	90 - 1797	*ND
<b>Benzene</b>	0.2 - 3.6	*ND
<b>Heptanes</b>	87 - 1735	*ND
<b>Toluene</b>	16 - 311	*ND
<b>Xylenes</b> (m,p,o-Xylenes)	109 - 2176	*ND

\* ND = None Detected (Defined by Dynamic Range of the method)

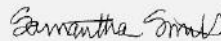
## NOTES:

N/A

## FINAL APPROVAL



 Daniel Weidensaul  
 18-May-2021  
 6:03 PM



 Sam Smith  
 18-May-2021  
 6:07 PM

PREPARED BY / DATE

APPROVED BY / DATE

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