

Prepared for:  
**Pirate Doc CBD**  
21538 W 56th Ave  
Golden, CO USA 80403

## FC042521S2S

Batch ID or Lot Number: <b>FC042521S2S</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: <b>09Feb2023</b>	Started: 08Feb2023	Received: 07Feb2023	


## Residual Solvents


Test ID: T000234774

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	100 - 2007	ND	
Butanes (Isobutane, n-Butane)	208 - 4157	ND	
Methanol	65 - 1293	ND	
Pentane	105 - 2101	ND	
Ethanol	108 - 2160	ND	
Acetone	104 - 2089	ND	
Isopropyl Alcohol	108 - 2170	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	106 - 2111	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	104 - 2071	ND	
Toluene	19 - 385	ND	
Xylenes (m,p,o-Xylenes)	146 - 2915	ND	

## Final Approval

  
Karen Winternheimer  
09Feb2023  
07:32:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
09Feb2023  
07:35:00 AM MST  
APPROVED BY / DATE

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## Pesticides


Test ID: T000234771

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	358 - 2647	ND		Malathion	280 - 2717	ND
Acephate	42 - 2759	ND		Metalaxyl	46 - 2718	ND
Acetamiprid	43 - 2753	ND		Methiocarb	41 - 2688	ND
Azoxystrobin	44 - 2729	ND		Methomyl	43 - 2762	ND
Bifenazate	43 - 2722	ND		MGK 264 1	154 - 1645	ND
Boscalid	45 - 2744	ND		MGK 264 2	116 - 1140	ND
Carbaryl	43 - 2719	ND		Myclobutanil	45 - 2763	ND
Carbofuran	44 - 2734	ND		Naled	43 - 2762	ND
Chlorantraniliprole	43 - 2726	ND		Oxamyl	41 - 2766	ND
Chlorpyrifos	53 - 2824	ND		Paclobutrazol	40 - 2726	ND
Clofentezine	275 - 2769	ND		Permethrin	313 - 2795	ND
Diazinon	292 - 2733	ND		Phosmet	44 - 2709	ND
Dichlorvos	275 - 2786	ND		Prophos	312 - 2672	ND
Dimethoate	41 - 2737	ND		Propoxur	41 - 2724	ND
E-Fenpyroximate	293 - 2797	ND		Pyridaben	313 - 2786	ND
Etofenprox	41 - 2790	ND		Spinosad A	35 - 2253	ND
Etoazole	309 - 2762	ND		Spinosad D	52 - 508	ND
Fenoxycarb	47 - 2690	ND		Spiromesifen	292 - 2770	ND
Fipronil	56 - 2762	ND		Spirotetramat	274 - 2731	ND
Flonicamid	43 - 2825	ND		Spiroxamine 1	16 - 1206	ND
Fludioxonil	318 - 2756	ND		Spiroxamine 2	21 - 1539	ND
Hexythiazox	45 - 2799	ND		Tebuconazole	277 - 2724	ND
Imazalil	288 - 2739	ND		Thiacloprid	44 - 2774	ND
Imidacloprid	41 - 2755	ND		Thiamethoxam	42 - 2785	ND
Kresoxim-methyl	23 - 2807	ND		Trifloxystrobin	44 - 2758	ND

## Final Approval

  
Karen Winternheimer  
10Feb2023  
06:26:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
10Feb2023  
06:29:00 AM MST  
APPROVED BY / DATE

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## Cannabinoids


Test ID: T000234770

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.636	4.909	78.100	2.80	# of Servings = 1, Sample Weight=27.6g
Cannabichromenic Acid (CBCA)	1.496	4.490	ND	ND	
Cannabidiol (CBD)	4.651	14.043	1546.730	56.00	
Cannabidiolic Acid (CBDA)	4.770	14.403	ND	ND	
Cannabidivarin (CBDV)	1.100	3.321	20.390	0.70	
Cannabidivarinic Acid (CBDVA)	1.990	6.008	ND	ND	
Cannabigerol (CBG)	0.929	2.787	36.970	1.30	
Cannabigerolic Acid (CBGA)	3.882	11.652	ND	ND	
Cannabinol (CBN)	1.212	3.636	4.260	0.20	
Cannabinolic Acid (CBNA)	2.649	7.950	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.625	13.881	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.200	12.607	53.310	1.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.722	11.170	ND	ND	
Tetrahydrocannabivarin (THCV)	0.845	2.535	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.283	9.852	ND	ND	
<b>Total Cannabinoids</b>			<b>1739.760</b>	<b>62.90</b>	
Total Potential THC			53.310	1.90	
Total Potential CBD			1546.730	56.00	

## Final Approval

  
Karen Winternheimer  
10Feb2023  
09:29:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
10Feb2023  
09:30:00 AM MST  
APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000234772

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

### Final Approval



Brett Hudson  
12Feb2023  
11:45:00 AM MST



Eden Thompson-Wright  
13Feb2023  
04:13:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

## Heavy Metals

Test ID: T000234773

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.06 - 5.87	ND	
Cadmium	0.06 - 5.98	ND	
Mercury	0.06 - 5.83	ND	
Lead	0.06 - 6.02	ND	

### Final Approval



Sam Smith  
15Feb2023  
09:39:00 AM MST



Karen Winternheimer  
15Feb2023  
09:42:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/a6ecd2f1-42a0-409a-aa4d-0166081284fd>

**Definitions**  
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa \*(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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