

Protonify
 1451 Island Highway East
 Nanoose Bay, BC V9P 9A3
 afisher@protonify.com

License: LIC- C36HD6C4YY-2024
 Sample Amount Submitted: 32.0g

Sample Received: 03/05/2024
 Report Created: 03/14/2024

Sample: PR-0115-03042024-1025

Report ID: PR-0115-03042024-1025-FINAL_03-14-2024

Sample Description: THC Acid Isolate


Total THC %*	Total CBD %*	Total Cannabinoids %
82.48	0.26	99.63

Cannabinoid	LOQ %	Percent by Weight	mg/g
THC Acid	0.01	92.702	927.02
CBC-Acid	0.01	3.340	33.40
Δ9-THC	0.01	1.181	11.81
CBN Acid	0.01	0.896	8.96
CBG Acid	0.01	0.782	7.82
CBG	0.01	0.430	4.30
CBD Acid	0.01	0.293	2.93
THCV Acid	0.01	<LOQ	<LOQ
CBC	0.01	<LOQ	<LOQ
CBD	0.01	<LOQ	<LOQ
CBDV	0.01	<LOQ	<LOQ
CBDV Acid	0.01	<LOQ	<LOQ
CBL	0.01	<LOQ	<LOQ
CBN	0.01	<LOQ	<LOQ
THCV	0.01	<LOQ	<LOQ
Δ10-THC	0.01	<LOQ	<LOQ
Δ8-THC	0.01	<LOQ	<LOQ

Method: HPLC-DAD. LOQ = Limit of Quantitation; LOD = Limit of Detection; ND = Not Detectable, NR = Not Reported, NT = Not Tested. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ***When reporting totals, acidic cannabinoids are multiplied by 0.877 to account for loss of mass from decarboxylation upon heating; therefore, this is the POTENTIAL amount upon complete decarboxylation from smoking/ vaping.**

PURA ANALYTICAL LABS

Pura Analytical Labs Inc.
 Unit 1, 2984 Boys Road, DUNCAN, BC
 (250) 929-2002 <https://www.puralabs.ca>
 Health Canada Lic # LIC-LEHSCQIYN-2022



Denise Johnson
 Head of Laboratory

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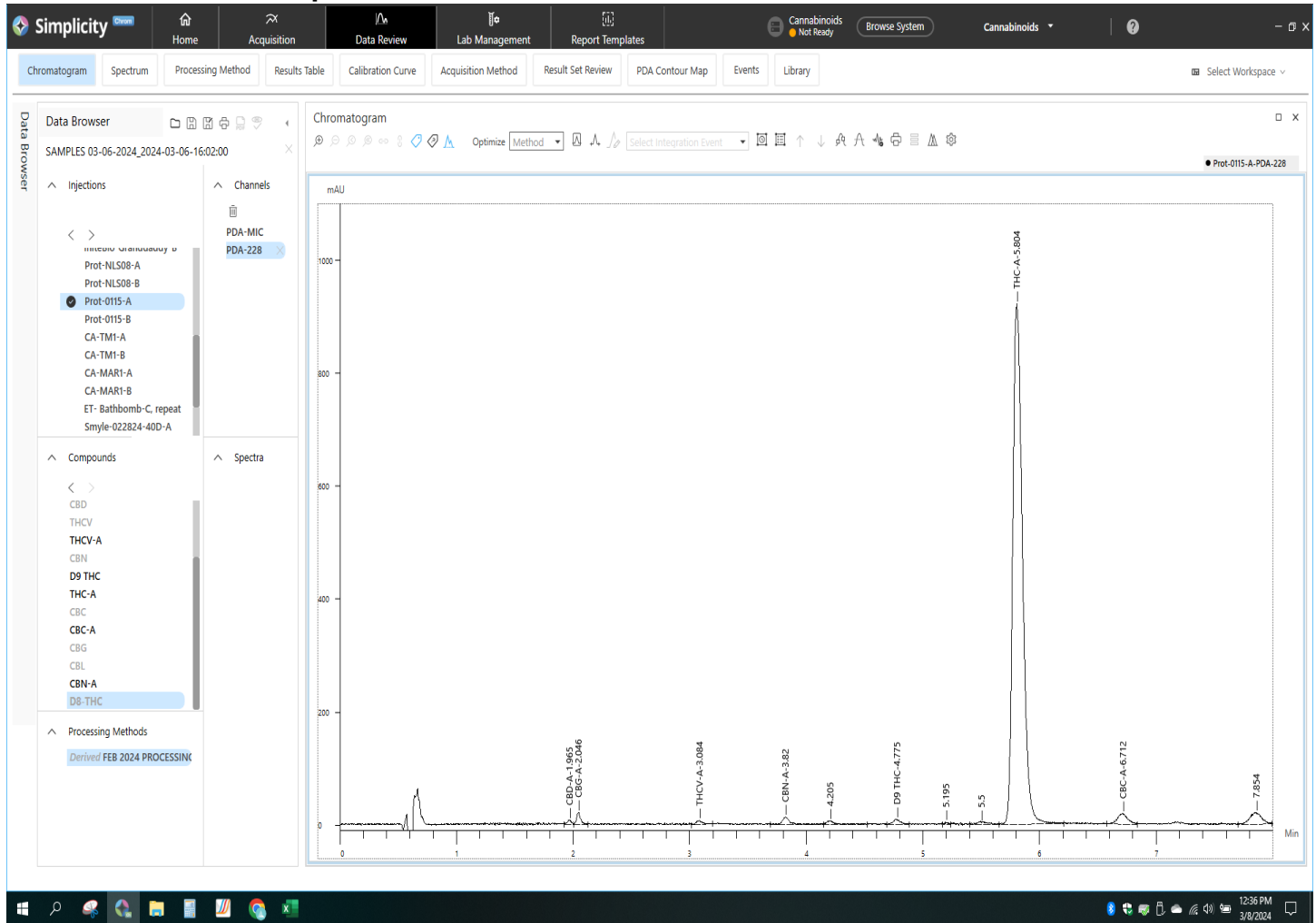
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CHROMATOGRAM Rep A:



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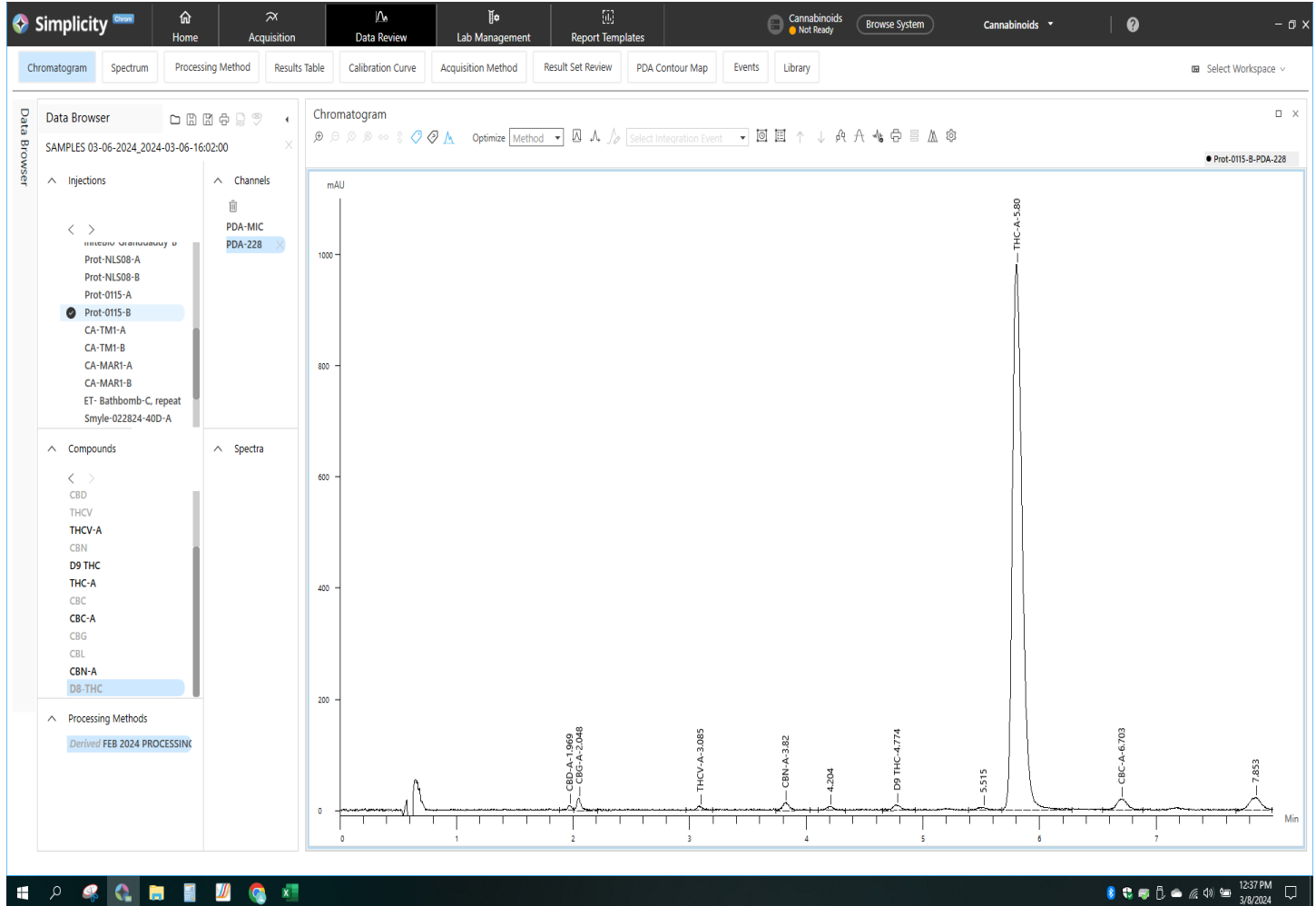
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CHROMATOGRAM Rep B:



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Sample Description: THC Acid Isolate

MICROBIALS

Microbial Parameters	Permissible Limit	LOD/LOQ	Results	Status
	CFU/g	CFU/g	CFU/g	
Total Aerobic Bacteria	100	10	ND	PASS
Total Yeast/ Mold	10	10	ND	PASS
BTGN Bacteria (Enterobacteriaceae)	Absent in 1g	1	ND	PASS
Pseudomonas aeruginosa	Absent in 1g	1	ND	PASS
Staphylococcus aureus	Absent in 1g	1	ND	PASS
E. coli	Absent in 1g	1	ND	PASS
Salmonella sp.	Absent in 25g	1	ND	PASS

Method: Total Counts via Petrifilm Plate method. Presence/ Absence assays via Quantitative PCR.

Criteria: Eur. Ph. 5.1.4: Inhalation Use Limits and Eur. Ph. 5.1.8. Table C, Oral Use Limits.

Absence of Salmonella in a 25 g sample, Absence of E. coli, BTGN, Pseudomonas aeruginosa and Staphylococcus aureus in 1g.

LOQ = Limit of Quantitation; CFU = Colony Forming Units. The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detectable, NR = Not Reported, NT = Not Tested

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HEAVY METALS

Analyte	Permissible Limit	LOQ	Results	Status
	ppm	ppm	ppm	
Arsenic	0.2	0.0001	0.0072	PASS
Cadmium	0.3	0.0001	0.0022	PASS
Lead	0.5	0.0001	0.0016	PASS
Mercury	0.1	0.0001	0.0037	PASS

Method: ICP-MS. Criteria: ICH guideline Q3D (R1) on elemental impurities Table A.2.2: Inhalation Use. PPM = Parts per Million; LOQ = Limit of Quantitation; LOD = Limit of Detection. The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

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MYCOTOXINS

Analyte	Permissible Limit	LOQ	Results	Status
	ppb	ppb	ppb	
Aflatoxin B1	1	1	ND	PASS
Aflatoxin B2	1	1	ND	PASS
Aflatoxin G1	1	1	ND	PASS
Aflatoxin G2	1	1	ND	PASS
Total Aflatoxins	4	4	ND	PASS
Ochratoxin A	20	10	ND	PASS

Method: LC-MS/MS ESI. Criteria: Eur. Ph. 2.8.18 & 2.8.22.

LOQ = Limit of Quantitation; LOD Limit of Detection; PPB = Parts per Billion.

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PESTICIDES

Analyte	Permissible Limit	LOQ	Results	Status	Analyte	Permissible Limit	LOQ	Results	Status
	ppm	ppm	ppm			ppm	ppm	ppm	
Abamectin	0.25	0.25	<LOQ	PASS	Cyprodinil	0.25	0.25	<LOQ	PASS
Acephate	0.05	0.05	<LOQ	PASS	Daminozide	0.10	0.10	<LOQ	PASS
Acequinocyl	0.05	0.05	<LOQ	PASS	Deltamethrin	1.00	1.00	<LOQ	PASS
Acetamiprid	0.10	0.10	<LOQ	PASS	Diazinon	0.02	0.02	<LOQ	PASS
Aldicarb	1.00	1.00	<LOQ	PASS	Dichlorvos	0.10	0.10	<LOQ	PASS
Allethrin	0.20	0.20	<LOQ	PASS	Dimethoate	0.02	0.02	<LOQ	PASS
Azadirachtin	1.00	1.00	<LOQ	PASS	Dimethomorph	0.05	0.05	<LOQ	PASS
Azoxystrobin	0.02	0.02	<LOQ	PASS	Dinotefuran	0.10	0.10	<LOQ	PASS
Benzovindiflupyr	0.02	0.02	<LOQ	PASS	Dodemorph	0.05	0.05	<LOQ	PASS
Bifenazate	0.05	0.05	<LOQ	PASS	Endosulfan Sulfate	0.50	0.50	<LOQ	PASS
Bifenthrin	1.00	1.00	<LOQ	PASS	Endosulfan-alpha	0.20	0.20	<LOQ	PASS
Boscalid	0.02	0.02	<LOQ	PASS	Endosulfan-beta	0.50	0.50	<LOQ	PASS
Buprofezin	0.02	0.02	<LOQ	PASS	Ethoprophos	0.02	0.02	<LOQ	PASS
Carbaryl	0.05	0.05	<LOQ	PASS	Etofenprox	0.05	0.05	<LOQ	PASS
Carbofuran	0.02	0.02	<LOQ	PASS	Etoxazole	0.02	0.02	<LOQ	PASS
Chlorantraniliprole	0.02	0.02	<LOQ	PASS	Etridiazol	0.03	0.03	<LOQ	PASS
Chlorphenapyr	0.10	0.10	<LOQ	PASS	Fenoxycarb	0.02	0.02	<LOQ	PASS
Chlorpyrifos	0.04	0.04	<LOQ	PASS	Fenpyroximate	0.02	0.02	<LOQ	PASS
Clofentezine	0.02	0.02	<LOQ	PASS	Fensulfothion	0.02	0.02	<LOQ	PASS
Clothianidin	0.05	0.05	<LOQ	PASS	Fenthion	0.02	0.02	<LOQ	PASS
Coumaphos	0.02	0.02	<LOQ	PASS	Fenvalerate	0.10	0.10	<LOQ	PASS
Cyantranilipole	0.02	0.02	<LOQ	PASS	Fipronil	0.06	0.06	<LOQ	PASS
Cyfluthrin	1.00	1.00	<LOQ	PASS	Fonicamid	0.05	0.05	<LOQ	PASS
Cypermethrin	1.00	1.00	<LOQ	PASS	Fludioxonil	0.02	0.02	<LOQ	PASS

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Method: LC-MS/MS Dual Ion Source. **Limits are set by Health Canada for Cannabis Concentrates.** PPM = Parts per Million; LOQ = Limit of Quantitation. The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detectable, NR = Not Reported, NT = Not Tested

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PESTICIDES

Analyte	Permissible Limit	LOQ	Results	Status	Analyte	Permissible Limit	LOQ	Results	Status
	ppm	ppm	ppm			ppm	ppm	ppm	
Fluopyram	0.02	0.02	<LOQ	PASS	Piperonyl Butoxide	0.25	0.25	<LOQ	PASS
Hexythiazox	0.01	0.01	<LOQ	PASS	Pirimicarb	0.02	0.02	<LOQ	PASS
Imazalil	0.05	0.05	<LOQ	PASS	Prallethrin	0.05	0.05	<LOQ	PASS
Imidacloprid	0.02	0.02	<LOQ	PASS	Propiconazole	0.10	0.10	<LOQ	PASS
Iprodione	1.00	1.00	<LOQ	PASS	Propoxur	0.02	0.02	<LOQ	PASS
Kinoprene	0.50	0.50	<LOQ	PASS	Pyraclostrobin	0.02	0.02	<LOQ	PASS
Kresoxim-methyl	0.02	0.02	<LOQ	PASS	Pyrethrins	0.05	0.05	<LOQ	PASS
Malathion	0.02	0.02	<LOQ	PASS	Pyridaben	0.05	0.05	<LOQ	PASS
Metalaxyl	0.02	0.02	<LOQ	PASS	Resmethrin	0.10	0.10	<LOQ	PASS
Methiocarb	0.02	0.02	<LOQ	PASS	Spinetoram	0.02	0.02	<LOQ	PASS
Methomyl	0.05	0.05	<LOQ	PASS	Spinosad	0.10	0.10	<LOQ	PASS
Methoprene	2.00	2.00	<LOQ	PASS	Spirodiclofen	0.25	0.25	<LOQ	PASS
Mevinphos	0.05	0.05	<LOQ	PASS	Spiromesifen	3.00	3.00	<LOQ	PASS
MGK-264	0.05	0.05	<LOQ	PASS	Spirotetramat	0.10	0.10	<LOQ	PASS
Myclobutanil	0.02	0.02	<LOQ	PASS	Spiroxamine	0.10	0.10	<LOQ	PASS
Naled	0.20	0.20	<LOQ	PASS	Tebuconazole	0.05	0.05	<LOQ	PASS
Novaluron	0.05	0.05	<LOQ	PASS	Tebufenozide	0.02	0.02	<LOQ	PASS
Oxamyl	3.00	3.00	<LOQ	PASS	Teflubenzuron	0.05	0.05	<LOQ	PASS
Paclobutrazol	0.02	0.02	<LOQ	PASS	Tetramethrin	0.10	0.10	<LOQ	PASS
Parathion Methyl	0.05	0.05	<LOQ	PASS	Tetrachlorvinphos	0.02	0.02	<LOQ	PASS
PCNB	0.02	0.02	<LOQ	PASS	Thiacloprid	0.02	0.02	<LOQ	PASS
Permethrin	0.50	0.50	<LOQ	PASS	Thiamethoxam	0.02	0.02	<LOQ	PASS
Phenothrin	0.05	0.05	<LOQ	PASS	Thiophanate-Methyl	0.05	0.05	<LOQ	PASS
Phosmet	0.02	0.02	<LOQ	PASS	Trifloxystrobin	0.02	0.02	<LOQ	PASS

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RESIDUAL SOLVENTS

Analyte	Permissible Limit ppm	LOQ ppm	Result ppm	Status
Methanol	≤ 3000	50	243.42	PASS
Isopropanol	≤ 5000	50	<LOQ	PASS
Heptane	≤ 5000	50	207.81	PASS

Method: GC-FID. Criteria: ICH guideline Q3C (R6) on impurities: guideline for residual solvents; Class 2 & Class 3 Residual Solvents, **Methanol and Heptane and Isopropanol screen only**. LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detectable, NR = Not Reported, NT = Not Tested

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