

# Certificate of Analysis

#### Arete

## Sample: 02-07-2023-29942

Sample Received:02/07/2023; Report Created: 02/23/2023; Expires: 02/08/2024

		<b>18.138%</b> Total THC			<b>0.274%</b> Δ-9 THC		
And a second second	<b>22.426 %</b> Total Cannabinoids			<loq %<br="">Total CBD</loq>			
<b>inoids</b> d:HPLC, CON-P-3000) 2/07/2023					c		
Analyte	LOD	LOQ	Mass	Mass			
	%	%	%	mg/g			
Δ-8-Tetrahydrocannabinol (Δ-8 THC)	0.0521	0.0781	ND	ND			
$\Delta$ -9-Tetrahydrocannabinol ( $\Delta$ -9 THC)	0.0521	0.0781	0.274	2.740	1		
Δ-9-Tetrahydrocannabinolic Acid (THCA-A)	0.0521	0.0781	20.370	203.698			
Δ-9-Tetrahydrocannabiphorol (Δ-9-THCP)	0.0521	0.0781	ND	ND			
		0.0781	ND	ND			
$\Delta$ -9-Tetrahydrocannabivarin ( $\Delta$ -9-THCV)	0.0521	0.0781					
	0.0521 0.0521	0.0781	0.128	1.281	1		
$\Delta$ -9-Tetrahydrocannabivarin ( $\Delta$ -9-THCV)							
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV) Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)	0.0521	0.0781	0.128	1.281			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV) Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA) R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)	0.0521 0.0521	0.0781 0.0781	<b>0.128</b> ND	<b>1.281</b> ND			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV) Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA) R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC) S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)	0.0521 0.0521 0.0521	0.0781 0.0781 0.0781	<b>0.128</b> ND ND	<b>1.281</b> ND ND			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV) Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA) R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC) S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC) 9R-Hexahydrocannabinol (9R-HHC)	0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND	<b>1.281</b> ND ND ND			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV) Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA) R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC) S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC) 9R-Hexahydrocannabinol (9R-HHC) 9S-Hexahydrocannabinol (9S-HHC)	0.0521 0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND	<b>1.281</b> ND ND ND			
<ul> <li>Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)</li> <li>Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)</li> <li>R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)</li> <li>S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)</li> <li>9R-Hexahydrocannabinol (9R-HHC)</li> <li>9S-Hexahydrocannabinol (9S-HHC)</li> <li>Tetrahydrocannabinol Acetate (THCO)</li> </ul>	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND	1.281 ND ND ND ND			
<ul> <li>Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)</li> <li>Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)</li> <li>R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)</li> <li>S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)</li> <li>9R-Hexahydrocannabinol (9R-HHC)</li> <li>9S-Hexahydrocannabinol (9S-HHC)</li> <li>Tetrahydrocannabinol Acetate (THCO)</li> <li>Cannabidivarin (CBDV)</li> </ul>	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND	1.281 ND ND ND ND ND			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)         Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)         R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         9R-Hexahydrocannabinol (9R-HHC)         9S-Hexahydrocannabinol (9S-HHC)         Tetrahydrocannabinol Acetate (THCO)         Cannabidivarin (CBDV)         Cannabidivarinic Acid (CBDVA)	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND ND	1.281 ND ND ND ND ND ND			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)         Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)         R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         9R-Hexahydrocannabinol (9R-HHC)         9S-Hexahydrocannabinol (9S-HHC)         Tetrahydrocannabinol Acetate (THCO)         Cannabidivarin (CBDV)         Cannabidivarinic Acid (CBDVA)         Cannabidiol (CBD)	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND ND ND	1.281 ND ND ND ND ND ND ND			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)         Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)         R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         9R-Hexahydrocannabinol (9R-HHC)         9S-Hexahydrocannabinol (9S-HHC)         Tetrahydrocannabinol Acetate (THCO)         Cannabidivarin (CBDV)         Cannabidi(CBD)         Cannabidiol (CBD)         Cannabidiolic Acid (CBDA)	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND ND ND SLOQ	1.281 ND ND ND ND ND ND <loq< td=""><td></td></loq<>			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)         Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)         R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         9R-Hexahydrocannabinol (9R-HHC)         9S-Hexahydrocannabinol (9S-HHC)         Tetrahydrocannabinol Acetate (THCO)         Cannabidivarin (CBDV)         Cannabidivarinic Acid (CBDVA)         Cannabidiol (CBD)         Cannabidiole (CBD)         Cannabidiole (CBDA)         Cannabigerol (CBG)	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0292 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND ND CLOQ <loq< td=""><td>1.281 ND ND ND ND ND ND <loq <loq< td=""><td></td></loq<></loq </td></loq<>	1.281 ND ND ND ND ND ND <loq <loq< td=""><td></td></loq<></loq 			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)         Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)         R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         9R-Hexahydrocannabinol (9R-HHC)         9S-Hexahydrocannabinol (9S-HHC)         Tetrahydrocannabinol Acetate (THCO)         Cannabidivarin (CBDV)         Cannabidivarin (CBDVA)         Cannabidiol (CBD)         Cannabidiole Acid (CBDA)         Cannabigerol (CBG)         Cannabigerolic Acid (CBGA)	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0292 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND ND <loq <loq 1.054</loq </loq 	1.281 ND ND ND ND ND CLOQ <loq 10.542</loq 			
Δ-9-Tetrahydrocannabivarin (Δ-9-THCV)         Δ-9-Tetrahydrocannabivarinic Acid (Δ-9-THCVA)         R-Δ-10-Tetrahydrocannabinol (R-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         S-Δ-10-Tetrahydrocannabinol (S-Δ-10-THC)         9R-Hexahydrocannabinol (9R-HHC)         9S-Hexahydrocannabinol (9S-HHC)         Tetrahydrocannabinol Acetate (THCO)         Cannabidivarin (CBDV)         Cannabidi (CBD)         Cannabidiolic Acid (CBDA)         Cannabigerol (CBG)         Cannabigerol (CBG)         Cannabigerolic Acid (CBGA)         Cannabiol (CBN)	0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0521 0.0292 0.0521 0.0521 0.0521	0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781 0.0781	0.128 ND ND ND ND ND ND <loq <loq 1.054 ND</loq </loq 	1.281 ND ND ND ND ND <loq <loq 10.542 ND</loq </loq 			

Total THC = THCa \* 0.877 + Δ9-THC;Total CBD = CBDa \* 0.877 + CBD; LOQ = Limit of Quantitation; ND = Not Detected.

Total THC Measurement of Uncertainty:  $\pm$  0.040% Total CBD Measurement of Uncertainty:  $\pm$  2.000% THCO potency analysis does not designate quantitative specificity of  $\Delta$ -8-THCO and  $\Delta$ -9-THCO isomers



New Bloom Labs 6121 Heritage Park Drive, A500 Chattanooga, TN 37416 (844) 837-8223 TN DEA#: RN0563975 ANAB Testing Laboratory (AT-2868): ISO/IEC 17025:2017

Natalie Siracusa

Laboratory Director

Amended report issued to reflect change in sample identification.

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# Certificate of Analysis

#### Arete

# Sample: 02-16-2023-30414

Sample Received:02/16/2023;

### Agent Orange

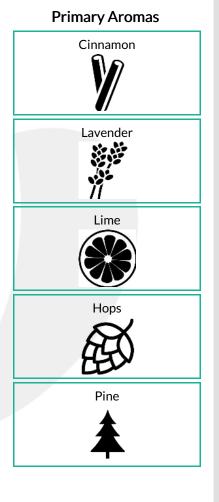
Plant, Flower - Cured

## Terpenes

(Testing Method:HS-GC/MS, CON-P-4000)	
Data Tastad: 02/16/2022	

Analyte	LOD	LOQ	Mass	Mass		
	PPM	PPM	PPM	mg/g		
α-Bisabolol	0.750	3.000	88.935	0.089	1	
α-Humulene	0.750	3.000	2004.077	2.004		
α-Pinene	0.750	3.000	491.954	0.492		
α-Terpinene	0.750	3.000	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
1,8-Cineole	0.750	3.000	31.853	0.032		
β-Caryophyllene	0.750	3.000	8526.153	8.526		
β-Myrcene	0.750	3.000	ND	ND		
Borneol	0.750	3.000	89.103	0.089		
Camphene	0.750	3.000	149.788	0.150		
Carene	0.750	3.000	ND	ND		
Caryophyllene Oxide	3.000	3.000	>3.000	>0.003		
Citral	0.750	3.000	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
Dihydrocarveol	0.750	3.000	ND	ND		
Fenchone	0.750	3.000	47.755	0.048		
y-Terpinene	0.750	3.000	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
Limonene	0.750	3.000	3358.791	3.359		
Linalool	0.750	3.000	4616.481	4.616		
Menthol	0.750	3.000	ND	ND		
Nerolidol	0.750	3.000	ND	ND		
Ocimene	0.750	3.000	ND	ND		
Pulegone	0.750	3.000	ND	ND		
Terpinolene	0.750	3.000	43.400	0.043		
Total			19670.990	19.671	1.967 %	







Total terpenes value is qualitative and includes concentrations outside the assay quantitative analytical range.



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