

Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

Hard Cider

Client: Dr. Wonderstone Sample Name: Hard Cider Batch Number: N/A

Matrix: Plant Unit Mass: 1 g per unit Sample ID: 55041112-5 Date Received: 11/12/2024



Total CBD	ND
Delta 9-THC	0.08 %
THCA	33.35 %
Total Cannabinoids	33.43 %
Analysis Summary	
Total Terpenes	2.83 %

Cannabinoid Analysis Complete

Analyte	LOD (%)	LOQ (%)	Mass (%)	Mass (mg/g)
CBDV	0.0035	0.011	ND	ND
CBD	0.0030	0.0090	ND	ND
CBG	0.0038	0.011	ND	ND
CBDA	0.0017	0.0052	ND	ND
CBN	0.00080	0.0024	ND	ND
Delta 9-THC	0.0022	0.0067	0.083	0.83
Delta 8-THC	0.0020	0.0059	ND	ND
CBC	0.00070	0.0021	ND	ND
THCA	0.0024	0.0073	33.349	333.49
Total CBD			ND	ND
Total THC			29.330	293.30
Total Cannabinoids			33.432	334.32

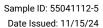
Date Tested: 11/13/2024

Total THC = THCa * 0.877 + d9-THC + d8-THC; Total CBD = CBDa * 0.877 + CBD

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References: limit of detection (LOD), limit of quantitation (LOQ), not detected (ND), not tested (NT)

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Terpenoid Analysis Complete

Analyte	LOQ (%)	Mass (%)	Mass (mg/g)
Camphene	0.0085	0.0287	0.287
3-Carene	0.0085	ND	ND
ß-Caryophyllene	0.0085	0.7984	7.984
p-Cymene	0.0085	ND	ND
Eucalyptol	0.0085	ND	ND
Fenchol	0.0085	0.0607	0.607
α-Humulene	0.0085	0.4311	4.311
δ-Limonene	0.0085	1.2455	12.455
Linalool	0.0085	ND	ND
ß-Myrcene	0.0085	0.1756	1.756
Nerolidol	0.0085	ND	ND
α-Pinene	0.0085	0.0878	0.878
Terpinolene	0.0085	ND	ND
Total Terpenoids		2.83	28.28

Date Tested: 11/14/2024

Method References: Testing Location

Cannabinoid Profile (UNODC) FESA Labs - Santa Ana, C

Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL (modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva, and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products