

KCA Laboratories 232 North Plaza Drive Nicholasville, KY 40356

+1-833-KCA-LABS https://kcalabs.com KDA Lic.# P_0058

H4CBD

Type: In-Process Materials Matrix: Concentrate - Distillate Unit Mass (g):

Received: 07/14/2022 Completed: 07/19/2022

Client



Summary

Test Cannabinoids Heavy Metals Residual Solvents

Date Tested 07/19/2022 07/19/2022 07/19/2022

Status Tested Tested Tested

ND Total Δ9-THC

68.0 % 9R-H4-CBD

95.8 %

Total Cannabinoids

Not Tested Moisture Content

Not Tested

Foreign Matter

Internal Standard Normalization

Yes

Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	
CBC	0.0095	0.0284	ND	ND	
CBCA	0.0181	0.0543	ND	ND	
CBCV	0.006	0.018	ND	ND	
CBD	0.0081	0.0242	ND	ND	
CBDA	0.0043	0.013	ND	ND	
CBDV	0.0061	0.0182	ND	ND	0(1,000,000)
CBDVA	0.0021	0.0063	ND	ND	
CBG	0.0057	0.0172	ND	ND	1.50-
CBGA	0.0049	0.0147	ND	ND	1 25-
CBL	0.0112	0.0335	ND	ND	1.00
CBLA	0.0124	0.0371	ND	ND	
CBN <	0.0056	0.0169	ND	ND	0.75
CBNA	0.006	0.0181	ND	ND	0.50
CBT	0,018	0.054	ND	ND	0.25
∆8-ТНС	0.0104	0.0312	ND	ND	
Δ9-THC	0.0076	0.0227	ND	ND	3.0
Δ9-ΤΗСΑ	0.0084	0.0251	ND	ND	
Δ9-THCV	0.0069	0.0206	ND	ND	
Δ9-THCVA	0.0062	0.0186	ND	ND	
9R-H4-CBD	0.0067	0.02	68.0	680	
9S-H4-CBD	0.0067	0.02	27.8	278	
Total Δ9-THC Total CBD			ND ND	ND ND	
Total			95.8	958	

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 * Δ9-THC; Total CBD = CBDA * 0.877 * CBD;

Generated By: Ryan Bellone Commercial Director Date: 07/22/2022

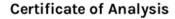
Tested By: Scott Caudill Senior Scientist Date: 07/19/2022







This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories can provide measurement uncertainty upon request.





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H4CBD

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Received: 07/14/2022 Completed: 07/19/2022 Client

Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)		
Arsenic	2	20	ND		
Cadmium	1	20	ND		
Lead	2	20	ND		
Mercury	12	50	ND		

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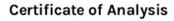
Generated By: Ryan Bellone Commercial Director Date: 07/22/2022

Tested By: Nicholas Howard Scientist

Date: 07/19/2022



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H4CBD

Type: In-Process Materials Matrix: Concentrate - Distillate Unit Mass (g): Received: 07/14/2022 Completed: 07/19/2022 CONFIDENTIAL

Residual Solvents by HS-GC-MS/MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetone	167	500	ND	Ethylene Glycol	21	62	ND
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	7	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanone	167	500	ND	Isopropyl Alcohol	167	500	ND
Chloroform	2	6	ND	Isopropylbenzene	167	500	ND
Cyclohexane	129	388	ND	Methanol	100	300	ND
1,2-Dichloroethane	0.5	1	ND	2-Methylbutane	10	29	ND
1,2-Dimethoxyethane	4	10	ND	Methylene Chloride	20	60	ND
Dimethyl Sulfoxide	167	500	ND	2-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND ND	3-Methylpentane	10	29	ND
2,2-Dimethylbutane	10	29	ND	n-Pentane	167	500	ND
2,3-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
N,N-Dimethylformamide	30	88	ND	n-Propane	167	500	ND
2,2-Dimethylpropane	167	500	ND	1-Propanol	167	500	ND
1,4-Dioxane	13	38	ND	Pyridine	7	20	ND
Ethanol	167	500	ND	Tetrahydrofuran	24	72	ND
2-Ethoxyethanol	6	16	ND _	Toluene	30	89	ND
Ethyl Acetate	167	500	ND	Trichloroethylene	3	8	ND
Ethyl Ether	167	500	ND	Tetramethylene Sulfone	6	16	ND
Ethylbenzene	3	7	ND	Xylenes (o-, m-, and p-)	73	217	ND

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