KCA Laboratories
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Nicholasville, KY 40356

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https://kcalabs.com
KDA Lic.# P_0058

Certificate of Analysis

CBDP

Sample ID: SA-250127-56031
Batch: MO46611
Type: In-Process Material
Matrix: Concentrate - Isolate
Unit Mass (g):

Received: 02/03/2025
Completed: 03/03/2025

Client
Pharmabinoid B.V.
Loopkantstraat 13A
Uden, North Brabant 5405NB
The Netherlands

Summary

Test	Date Tested	Status
Cannabinoids	02/18/2025	Tested
Heavy Metals	02/28/2025	Tested
Microbials	02/22/2025	Tested
Mycotoxins	02/25/2025	Tested
Pesticides	02/25/2025	Tested
Residual Solvents	03/03/2025	Tested

ND	98.2 %	98.2 %	Not Tested	Not Tested	Yes
Total Δ9-THC	CBDP	Total Cannabinoids	Moisture Content	Foreign Matter	Internal Standard Normalization

Cannabinoids by HPLC-PDA and 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
CBDP	0.0067	0.02	98.2	982
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	ND	ND
CBGA	0.0049	0.0147	ND	ND
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	ND	ND
CBNA	0.006	0.0181	ND	ND
CBNP	0.0067	0.02	ND	ND
CBT	0.018	0.054	ND	ND
Δ4,8-iso-THC	0.0067	0.02	ND	ND
Δ8-iso-THC	0.0067	0.02	ND	ND
Δ8-THC	0.0104	0.0312	ND	ND
Δ8-THCP	0.0067	0.02	ND	ND
Δ8-THCV	0.0067	0.02	ND	ND
Δ9-THC	0.0076	0.0227	ND	ND
Δ9-THCA	0.0084	0.0251	ND	ND
Δ9-THCP	0.0067	0.02	ND	ND
Δ9-THCV	0.0069	0.0206	ND	ND
Δ9-THCVA	0.0062	0.0186	ND	ND
exo-THC	0.0067	0.02	ND	ND
Total Δ9-THC			**ND**	**ND**
Total			**98.2**	**982**

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
CCO
Date: 03/03/2025

Tested By: Scott Caudill
Laboratory Manager
Date: 02/18/2025

ISO/IEC 17025:2017 Accredited
Accreditation #108651

This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 17025:2017 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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PHARMABINOID
MANUFACTURER & WHOLESALER

Generated By: Ryan Bellone
CCO
Date: 03/03/2025

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Heavy Metals by ICP-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Arsenic	0.002	0.02	ND
Cadmium	0.001	0.02	ND
Lead	0.002	0.02	ND
Mercury	0.012	0.05	ND

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PHARMABINOID
MANUFACTURER & WHOLESALER

Generated By: Ryan Bellone
CCO
Date: 03/03/2025

Tested By: Chris Farman
Scientist
Date: 02/28/2025

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Pesticides by LC-MS/MS and GC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Abamectin	30	100	ND	Hexythiazox	30	100	ND
Acephate	30	100	ND	Imazalil	30	100	ND
Acetamiprid	30	100	ND	Imidacloprid	30	100	ND
Aldicarb	30	100	ND	Kresoxim methyl	30	100	ND
Azoxystrobin	30	100	ND	Malathion	30	100	ND
Bifenazate	30	100	ND	Metalaxyl	30	100	ND
Boscalid	30	100	ND	Methiocarb	30	100	ND
Carbaryl	30	100	ND	Methomyl	30	100	ND
Carbofuran	30	100	ND	Mevinphos	30	100	ND
Chloranthraniliprole	30	100	ND	Myclobutanil	30	100	ND
Chlorfenapyr	30	100	ND	Naled	30	100	ND
Chlorpyrifos	30	100	ND	Oxamyl	30	100	ND
Clofentezine	30	100	ND	Paclobutrazol	30	100	ND
Coumaphos	30	100	ND	Phosmet	30	100	ND
Daminozide	30	100	ND	Piperonyl Butoxide	30	100	ND
Diazinon	30	100	ND	Prallethrin	30	100	ND
Dichlorvos	30	100	ND	Propiconazole	30	100	ND
Dimethoate	30	100	ND	Propoxur	30	100	ND
Dimethomorph	30	100	ND	Pyridaben	30	100	ND
Ethoprophos	30	100	ND	Spinetoram	30	100	ND
Etofenprox	30	100	ND	Spinosad	30	100	ND
Etoxazole	30	100	ND	Spiromesifen	30	100	ND
Fenhexamid	30	100	ND	Spirotetramat	30	100	ND
Fenoxycarb	30	100	ND	Spiroxamine	30	100	ND
Fenpyroximate	30	100	ND	Tebuconazole	30	100	ND
Fipronil	30	100	ND	Thiacloprid	30	100	ND
Flonicamid	30	100	ND	Thiamethoxam	30	100	ND
Fludioxonil	30	100	ND	Trifloxystrobin	30	100	ND

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PHARMABINOID
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Generated By: Ryan Bellone
CCO
Date: 03/03/2025

Tested By: Jasper van Heemst
Principal Scientist
Date: 02/25/2025

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Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
B1	1	5	ND
B2	1	5	ND
G1	1	5	ND
G2	1	5	ND
Ochratoxin A	1	5	ND

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Generated By: Ryan Bellone
CCO
Date: 03/03/2025

Tested By: Jasper van Heemst
Principal Scientist
Date: 02/25/2025

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Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	Result (Qualitative)
Total aerobic count	10	ND	
Total coliforms	10	ND	
Generic E. coli	10	ND	
Salmonella spp.	1		Not Detected per 1 gram
Shiga-toxin producing E. coli (STEC)	1		Not Detected per 1 gram

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Generated By: Ryan Bellone
CCO
Date: 03/03/2025

Tested By: Natalia Wright
Laboratory Technician
Date: 02/22/2025

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Residual Solvents by HS-GC-MS

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

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Generated By: Ryan Bellone
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Date: 03/03/2025

Tested By: Kelsey Rogers
Scientist
Date: 03/03/2025

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