1 of 8

HHC Vape Cartridge - Granddaddy Purple - 1 ml

KCA Laboratories

232 North Plaza Drive

Nicholasville, KY 40356

Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235



Summary

Test
Cannabinoids
Heavy Metals
Microbials
Mycotoxins
Pesticides
Residual Solvents
Terpenes

Date Tested 09/07/2023 09/01/2023 08/31/2023 09/05/2023 09/05/2023 09/01/2023 09/01/2023 Status
Tested
Tested
Tested
Tested
Tested
Tested
Tested
Tested
Tested

NDTotal Δ9-THC

67.9 % (6aR,9R,10aR)-HHC

93.5 %
Total Cannabinoids

Not TestedMoisture Content

Not TestedForeign 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	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
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
CBT	0.018	0.054	0.206	2.06
Δ8-ΤΗС	0.0104	0.0312	ND	ND
Δ9-ΤΗС	0.0076	0.0227	ND	ND
Δ9-ΤΗCΑ	0.0084	0.0251	ND	ND
Δ9-ΤΗCV	0.0069	0.0206	ND	ND
Δ9-THCVA	0.0062	0.0186	ND	ND
(6aR,9R,10aR)-HHC	0.0067	0.02	67.9	679
(6aR,9S,10aR)-HHC	0.0067	0.02	25.4	254
Total Δ9-THC			ND	ND
Total			93.5	935

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; \(\Delta = Delta; \) Total \(\Delta \) -THC = \(\Delta \) -THC + \(\D

Generated By: Ryan Bellone CCO Date: 09/07/2023

Tested By: Scott Caudill Laboratory Manager Date: 09/07/2023







Testing
Anager ISO/IEC 17025:2017 Accredited
Accredited 190851

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HHC Vape Cartridge - Granddaddy Purple - 1 ml

KCA Laboratories

232 North Plaza Drive

Nicholasville, KY 40356

Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

Terpenes by GC-MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α -Bisabolol	0.002	0.01	ND	Limonene	0.002	0.01	0.476
(+)-Borneol	0.002	0.01	ND	Linalool	0.002	0.01	0.383
Camphene	0.002	0.01	ND	β-myrcene	0.002	0.01	0.965
Camphor	0.004	0.02	ND	Nerol	0.002	0.01	ND
3-Carene	0.002	0.01	ND	cis-Nerolidol	0.002	0.01	ND
β-Caryophyllene	0.002	0.01	0.393	trans-Nerolidol	0.002	0.01	ND
Caryophyllene Oxide	0.002	0.01	ND	Ocimene	0.002	0.01	0.0442
α -Cedrene	0.002	0.01	ND	α -Phellandrene	0.002	0.01	0.294
Cedrol	0.002	0.01	ND	α-Pinene	0.002	0.01	0.103
Eucalyptol	0.002	0.01	ND	β-Pinene	0.002	0.01	0.129
Fenchone	0.004	0.02	ND	Pulegone	0.002	0.01	ND
Fenchyl Alcohol	0.002	0.01	ND	Sabinene	0.002	0.01	<loq< td=""></loq<>
Geraniol	0.002	0.01	ND	Sabinene Hydrate	0.002	0.01	ND
Geranyl Acetate	0.002	0.01	ND	α-Terpinene	0.002	0.01	ND
Guaiol	0.002	0.01	ND	γ-Terpinene	0.002	0.01	ND
Hexahydrothymol	0.002	0.01	ND	α-Terpineol	0.001	0.005	ND
α -Humulene	0.002	0.01	0.153	γ-Terpineol	0.001	0.005	ND
Isoborneol	0.002	0.01	ND	Terpinolene	0.002	0.01	0.0361
Isopulegol	0.002	0.01	ND	Valencene	0.002	0.01	ND
				Total Terpenes (%)			2.98

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit











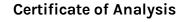


Generated By: Ryan Bellone CCO

Date: 09/07/2023

Tested By: Jasper van Heemst Principal Scientist Date: 09/01/2023







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HHC Vape Cartridge - Granddaddy Purple - 1 ml

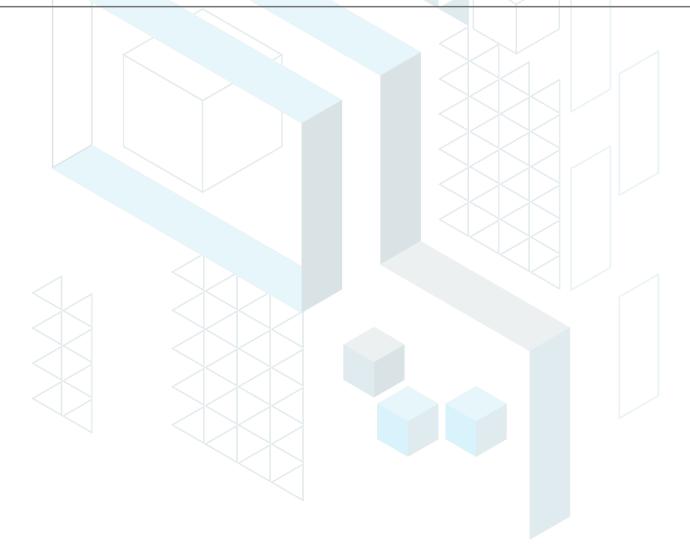
Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

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

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone CCO

Tested By: Chris Farman Scientist Date: 09/01/2023



KCa labs

HHC Vape Cartridge - Granddaddy Purple - 1 ml

Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Acephate	30	100	ND	Hexythiazox	30	100	ND
Acetamiprid	30	100	ND	Imazalil	30	100	ND
Aldicarb	30	100	ND	Imidacloprid	30	100	ND
Azoxystrobin	30	100	ND	Kresoxim methyl	30	100	ND
Bifenazate	30	100	ND	Malathion	30	100	ND
Bifenthrin	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	Permethrin	30	100	ND
Daminozide	30	100	ND	Phosmet	30	100	ND
Diazinon	30	100	ND	Piperonyl Butoxide	30	100	ND
Dichlorvos	30	100	ND	Prallethrin	30	100	ND
Dimethoate	30	100	ND	Propiconazole	30	100	ND
Dimethomorph	30	100	ND	Propoxur	30	100	ND
Ethoprophos	30	100	ND	Pyrethrins	30	100	ND
Etofenprox	30	100	ND	Pyridaben	30	100	ND
Etoxazole	30	100	ND	Spinetoram	30	100	ND
Fenhexamid	30	100	ND	Spinosad	30	100	ND
Fenoxycarb	30	100	ND	Spiromesifen	30	100	ND
Fenpyroximate	30	100	ND	Spirotetramat	30	100	ND
Fipronil	30	100	ND	Spiroxamine	30	100	ND
Flonicamid	30	100	ND	Tebuconazole	30	100	ND
Fludioxonil	30 <	100	ND	Thiacloprid	30	100	ND
				Thiamethoxam	30	100	ND
				Trifloxystrobin	30	100	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone CCO

Date: 09/07/2023

Tested By: Jasper van Heemst Principal Scientist Date: 09/05/2023







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HHC Vape Cartridge - Granddaddy Purple - 1 ml

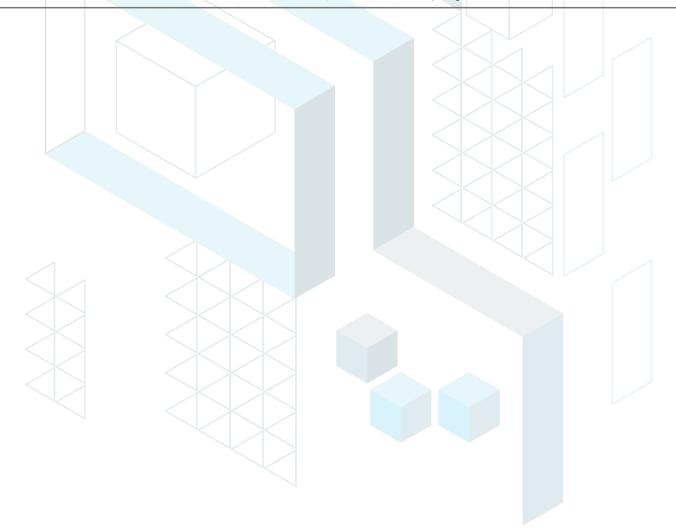
Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

Mycotoxins by LC-MS/MS

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

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone CCO Tested By: Jasper van Heemst Principal Scientist Date: 09/05/2023



Date: 09/07/2023

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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HHC Vape Cartridge - Granddaddy Purple - 1 ml

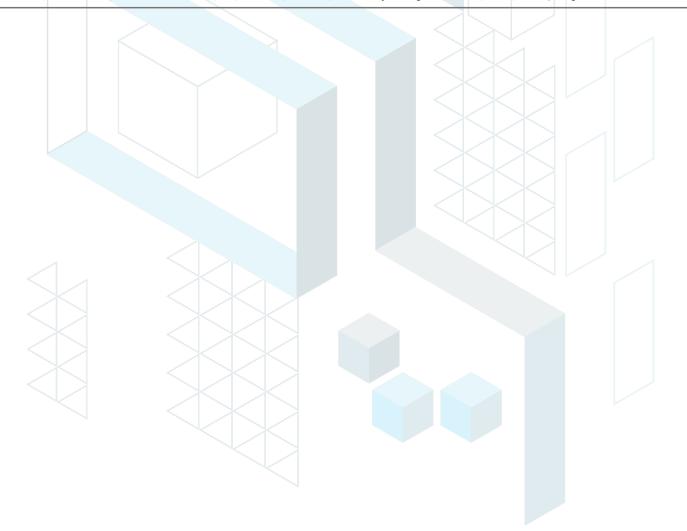
Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

Microbials by PCR and Plating

Total aerobic count 1 ND Total coliforms 1 ND Generic E. coli 1 ND	litative)
Generic Ficoli	
Containe E. Com	
Salmonella spp. 1 Not Detecte	d per 1 gram
Shiga-toxin producing E. coli (STEC) Not Detecte	d per 1 gram

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone CCO

Date: 09/07/2023

Tested By: Matt Zachman Laboratory Technician Date: 08/31/2023



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HHC Vape Cartridge - Granddaddy Purple - 1 ml

Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

Residual Solvents by HS-GC-MS

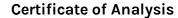
	,						
Analyte	LOD	LOQ	Result	Analyte	LOD	LOQ	Result
	(ppm)	(ppm)	(ppm)		(ppm)	(ppm)	(ppm)
Acetone	167	500	ND	Ethylene Glycol	21	62	ND
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	1	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	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	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
					-		

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone Tested By: Scott Caudill CCO Laboratory Manager Date: 09/07/2023 Date: 09/01/2023







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HHC Vape Cartridge - Granddaddy Purple - 1 ml

Sample ID: SA-230823-26217 Batch: 21AUG2023-HHCGDP Type: Finished Product - Inhalable Matrix: Concentrate - Distillate Unit Mass (g):

Collected: 08/21/2023 Received: 08/28/2023 Completed: 09/07/2023 Client 3Chi 275 Medical Dr #857 Carmel, IN 46082 USA Lic. #: 18_0235

Reporting Limit Appendix

Heavy Metals - Colorado CDPHE

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Arsenic	1500	Lead	500
Cadmium	500	Mercury	1500

Microbials -

Analyte	Limit (CFU/	Analyte	Limit (CFU/ g)
Total coliforms	100	Total aerobic count	100000

Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Acetone	5000	Ethylene Glycol	620
Acetonitrile	410	Ethylene Oxide	1
Benzene	2	Heptane	5000
Butane	5000	n-Hexane	290
1-Butanol	5000	Isobutane	5000
2-Butanol	5000	Isopropyl Acetate	5000
2-Butanone	5000	Isopropyl Alcohol	5000
Chloroform	60	Isopropylbenzene	5000
Cyclohexane	3880	Methanol	3000
1,2-Dichloroethane	5	2-Methylbutane	290
1,2-Dimethoxyethane	100	Methylene Chloride	600
Dimethyl Sulfoxide	5000	2-Methylpentane	290
N,N-Dimethylacetamide	1090	3-Methylpentane	290
2,2-Dimethylbutane	290	n-Pentane	5000
2,3-Dimethylbutane	290	1-Pentanol	5000
N,N-Dimethylformamide	880	n-Propane	5000
2,2-Dimethylpropane	5000	1-Propanol	5000
1,4-Dioxane	380	Pyridine	200
Ethanol	5000	Tetrahydrofuran	720
2-Ethoxyethanol	160	Toluene	890
Ethyl Acetate	5000	Trichloroethylene	80
Ethyl Ether	5000	Tetramethylene Sulfone	160
Ethylbenzene	70	Xylenes (o-, m-, and p-)	2170

Pesticides - CA DCC

Analyte	L	imit (ppb)	Analyte		Limit (ppb)
Aldicarb		30	Imidacloprid		3000
Azoxystrobin		40000	Kresoxim methy	/I	1000
Bifenazate		5000	Malathion		5000
Bifenthrin		500	Metalaxyl		15000
Boscalid		10000	Methiocarb		30
Carbaryl		500	Methomyl		100
Carbofuran		30	Mevinphos		30
Chloranthranilipro	le	40000	Myclobutanil		9000
Chlorfenapyr		30	Naled		500
Chlorpyrifos		30	Oxamyl		200
Clofentezine		500	Paclobutrazol		30
Coumaphos		30	Permethrin		20000
Daminozide		30	Phosmet		200
Diazinon		200	Piperonyl Butox	ide	8000
Dichlorvos		30	Prallethrin		400
Dimethoate		30	Propiconazole		20000
Dimethomorph		20000	Propoxur		30
Ethoprophos		30	Pyrethrins		1000
Etofenprox		30	Pyridaben		3000
Etoxazole		1500	Spinetoram		3000
Fenhexamid		10000	Spinosad		3000
Fenoxycarb		30	Spiromesifen		12000
Fenpyroximate		2000	Spirotetramat		13000
Fipronil		30	Spiroxamine		30
Flonicamid		2000	Tebuconazole		2000
Fludioxonil		30000	Thiacloprid		30

Mycotoxins - Colorado CDPHE

Analyte	Limit (ppm) Analyte	Limit (ppm)
B1	5 B2	5
G1	5 G2	5
Ochratoxin A	5	

Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Acephate	5000	Hexythiazox	2000
Acetamiprid	5000	lmazalil	30

