

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

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lemp Forte					
ample ID: SA-220509 Batch: 220502 ype: In-Process Materi 4atrix: Oil / Liquid - He Jnit Mass (g):	als	Received: 05/09/2 Completed: 05/20		Client Permahill Extr. 427 Hume Bec Paris, KY 40361 USA Lic. #: P_0413	lford Pike
			Summary		
			Test	Date Tested	Status
			Cannabinoids	05/20/2022	Tested
			Foreign Matter	05/09/2022	Tested
	100		Heavy Metals	05/12/2022	Tested
		\checkmark	Microbials	05/17/2022	Tested
	Rx Vitamins		Mycotoxins	05/19/2022	Tested
	for PETS HempRs		Pesticides	05/19/2022	Tested
	Forte		Residual Solvents	05/19/2022	Tested
	Harting Della Vitali Harting Repland Carlos fort Harting Repland and Carlos fort P. R. D. Co. (10) Million		Terpenes	05/19/2022	Tested
ND	34.1 mg/mL	39.3 mg/mL	Not Tested	Not Detected	Yes
Total ∆9-THC	CBD	Total Cannabinoids	Moisture Content	Foreign Matter	Internal Standard Normalization
Cannabinoids	by HPLC-PDA, L	C-MS/MS, and/	or GC-MS/MS		
Analyte	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (%)	Result (mg/unit)
BC	0.00095	0.00284	1.60	0.175	95.9
BCA	0.00181	0.00543	ND	ND	ND
BCV	0.0006	0.0018	0.0210	0.00230	1.26
3D	0.00081	0.00242	34.1	3.73	2040
BDA	0.00043	0.0013	ND	ND	ND
BDV	0.00061	0.00182	0.479	0.0524	28.7
BDVA	0.00021	0.00063	ND	ND	ND
3G					
	0.00057	0.00172	0.871	0.0954	52.3
	0.00049	0.00147	ND	ND	ND
3L	0.00049 0.00112	0.00147 0.00335	N D 0.108	ND 0.0118	ND 6.48
BL BLA	0.00049 0.00112 0.00124	0.00147 0.00335 0.00371	ND 0.108 ND	ND 0.0118 ND	ND 6.48 ND
BL BLA BN	0.00049 0.00112 0.00124 0.00056	0.00147 0.00335 0.00371 0.00169	ND 0.108 ND 0.550	ND 0.0118 ND 0.0602	ND 6.48 ND 33.0
BL BLA BN BNA	0.00049 0.00112 0.00124 0.00056 0.0006	0.00147 0.00335 0.00371 0.00169 0.00181	ND 0.108 ND 0.550 ND	ND 0.0118 ND 0.0602 ND	ND 6.48 ND 33.0 ND
BL BLA BN BNA BT	0.00049 0.00112 0.00124 0.00056 0.0006 0.0018	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054	ND 0.108 ND 0.550 ND 1.56	ND 0.0118 ND 0.0602 ND 0.171	ND 6.48 ND 33.0 ND 93.7
BL BLA BN BNA BT B-THC	0.00049 0.00112 0.00124 0.00056 0.0006 0.0018 0.00104	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054 0.00312	ND 0.108 ND 0.550 ND 1.56 ND	ND 0.0118 ND 0.0602 ND 0.171 ND	ND 6.48 ND 33.0 ND 93.7 ND
BL BLA BN BNA BT 3-THC 9-THC	0.00049 0.00112 0.00124 0.00056 0.0006 0.0018 0.00104 0.00076	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054 0.00312 0.00227	ND 0.108 ND 0.550 ND 1.56 ND ND ND	ND 0.0118 ND 0.0602 ND 0.171 ND ND	ND 6.48 ND 33.0 ND 93.7 ND ND
BL BLA BN BNA BT 8-THC 9-THC 9-THCA	0.00049 0.0012 0.00124 0.00056 0.0006 0.0018 0.00104 0.00076 0.00084	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054 0.00312 0.00227 0.00221	ND 0.108 ND 0.550 ND 1.56 ND ND ND ND	ND 0.0118 ND 0.0602 ND 0.171 ND ND ND ND	ND 6.48 ND 33.0 ND 93.7 ND ND ND
BL BLA BN BNA BT 8-THC 9-THC 9-THCA 9-THCV	0.00049 0.00112 0.00124 0.00056 0.0006 0.0018 0.00104 0.00076	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054 0.00312 0.00227	ND 0.108 ND 0.550 ND 1.56 ND ND ND	ND 0.0118 ND 0.0602 ND 0.171 ND ND	ND 6.48 ND 33.0 ND 93.7 ND ND
BL BLA BN BNA BT 8-THC 9-THC 9-THCA 9-THCV 9-THCV 9-THCVA	0.00049 0.0012 0.00124 0.00056 0.0006 0.0018 0.00104 0.00076 0.00084 0.00069	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054 0.00312 0.00227 0.00251 0.00251 0.00206	ND 0.108 ND 0.550 ND 1.56 ND ND ND ND ND ND	ND 0.0118 ND 0.0602 ND 0.171 ND ND ND ND ND	ND 6.48 ND 33.0 ND 93.7 ND ND ND ND
BGA BL BLA BN BNA BT 8-THC 9-THC 9-THC 9-THCV 9-THCV 9-THCVA Dtal Δ9-THC Dtal CBD	0.00049 0.0012 0.00124 0.00056 0.0006 0.0018 0.00104 0.00076 0.00084 0.00069	0.00147 0.00335 0.00371 0.00169 0.00181 0.0054 0.00312 0.00227 0.00251 0.00251 0.00206	ND 0.108 ND 0.550 ND 1.56 ND ND ND ND ND ND ND ND ND	ND 0.0118 ND 0.0602 ND 0.171 ND ND ND ND ND ND ND ND	ND 6.48 ND 33.0 ND 93.7 ND ND ND ND ND ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ 9-THC = Δ 9-THC * 0.877 + Δ 9-THC; Total CBD = CBDA * 0.877 + CBD;

Generated By: Christopher Ware CEO Date: 06/02/2022

Bullion

Testéd By: Jared Burkhart Technical Manager Date: 05/20/2022





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Hemp Forte

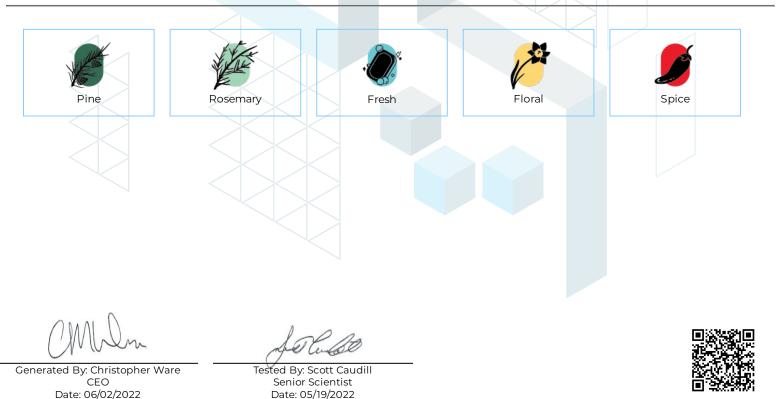
Sample ID: SA-220509-9125 Batch: 220502 Type: In-Process Materials Matrix: Oil / Liquid - Hemp Seed Oil Unit Mass (g):

Received: 05/09/2022 Completed: 05/20/2022 Client Permahill Extracts 427 Hume Bedford Pike Paris, KY 40361 USA Lic. #: P_0413

Terpenes by HS-GC-MS/MS

•							
Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α -Bisabolol	0.00001	0.00005	ND	Limonene	0.00001	0.00005	0.000106
(+)-Borneol	0.00001	0.00005	ND	Linalool	0.00001	0.00005	0.004664
Camphene	0.00001	0.00005	ND	β-myrcene	0.00001	0.00005	0.002014
Camphor	0.00001	0.00005	ND	Nerol	0.00001	0.00005	ND
3-Carene	0.00001	0.00005	ND	cis-Nerolidol	0.00001	0.00005	ND
β -Caryophyllene	0.00001	0.00005	0.001607	trans-Nerolidol	0.00001	0.00005	ND
Caryophyllene Oxide	0.00001	0.00005	ND	Ocimene	0.00001	0.00005	ND
α -Cedrene	0.00001	0.00005	ND	α -Phellandrene	0.00001	0.00005	0.000053
Cedrol	0.00001	0.00005	ND	α -Pinene	0.00001	0.00005	0.006794
Eucalyptol	0.00001	0.00005	0.002298	β-Pinene	0.00001	0.00005	0.00146
Fenchone	0.00001	0.00005	ND	Pulegone	0.00001	0.00005	0.001822
Fenchyl Alcohol	0.00001	0.00005	ND	Sabinene	0.00001	0.00005	ND
Geraniol	0.00001	0.00005	ND	Sabinene Hydrate	0.00001	0.00005	ND
Geranyl Acetate	0.00001	0.00005	ND	α -Terpinene	0.00001	0.00005	ND
Guaiol	0.00001	0.00005	ND	γ-Terpinene	0.00001	0.00005	ND
Hexadhydrothymol	0.00001	0.00005	ND	α -Terpineol	0.00001	0.00005	0.00112
α -Humulene	0.00001	0.00005	0.000656	γ-Terpineol	0.00001	0.00005	ND
Isoborneol	0.00001	0.00005	ND	Terpinolene	0.00001	0.00005	ND
Isopulegol	0.00001	0.00005	ND	Total Terpenes (%)			0.0226

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





Mercury

KCA Laboratories 232 North Plaza Drive Nicholasville, KY 40356

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Hemp Forte Client Sample ID: SA-220509-9125 Permahill Extracts Batch: 220502 Received: 05/09/2022 427 Hume Bedford Pike Type: In-Process Materials Completed: 05/20/2022 Paris, KY 40361 Matrix: Oil / Liquid - Hemp Seed Oil USA Unit Mass (g): Lic. #: P_0413 Heavy Metals by ICP-MS Analyte LOD (ppb) LOQ (ppb) Result (ppb) Arsenic 20 ND Cadmium 20 ND 2 20 Lead ND

ND

50

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

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Generated By: Christopher Ware CEO Date: 06/02/2022

Tested By: Nicholas Howard Scientist Date: 05/12/2022





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Hemp Forte

Sample ID: SA-220509-9125 Batch: 220502 Type: In-Process Materials Matrix: Oil / Liquid - Hemp Seed Oil Unit Mass (g):

Received: 05/09/2022 Completed: 05/20/2022 **Client** Permahill Extracts 427 Hume Bedford Pike Paris, KY 40361

USA Lic. #: P_0413

Pesticides by LC-MS/MS and GC-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
Boscalid	30	100	ND	Metalaxyl	30	100	ND
Carbaryl	30	100	ND	Methiocarb	30	100	ND
Carbofuran	30	100	ND	Methomyl	30	100	ND
Chloranthraniliprole	30	100	ND	Mevinphos	30	100	ND
Chlorfenapyr	30	100	ND	Myclobutanil	30	100	ND
Clofentezine	30	100	ND	Naled	30	100	ND
Coumaphos	30	100	ND	Oxamyl	30	100	ND
Cypermethrin	30	100	ND	Paclobutrazol	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	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
	\leq			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: Christopher Ware CEO Date: 06/02/2022

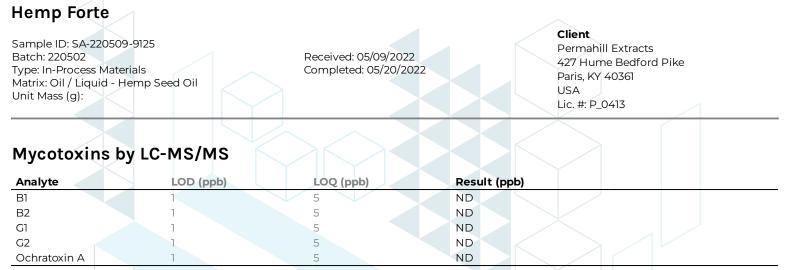
Testéd By: Jared Burkhart Technical Manager Date: 05/19/2022





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

Generated By: Christopher Ware CEO Date: 06/02/2022

Testéd By: Jared Burkhart Technical Manager Date: 05/19/2022





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Hemp Forte

Microbials by PC Analyte Coliforms Aerobic Bacteria Salmonella	R and Plating LOD (CFU/g)	Result (CFU/g) ND ND	Result (Qualitative) Not Detected per 1 gram
Analyte Coliforms		ND	Result (Qualitative)
Analyte			Result (Qualitative)
-		Result (CFU/g)	Result (Qualitative)
Microbials by PC	R and Plating		
Type: In-Process Materials Matrix: Oil / Liquid - Hemp Unit Mass (g):	Seed Oil	Completed: 05/20/2022	427 Hume Bedford Pike Paris, KY 40361 USA Lic. #: P_0413
Sample ID: SA-220509-9125 Batch: 220502	,	Received: 05/09/2022	Client Permahill Extracts

Generated By: Christopher Ware CEO Date: 06/02/2022

orne Tested By: Alex Morris

Quality Assurance Manager Date: 05/17/2022





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Hemp Forte

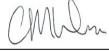
Sample ID: SA-220509-9125 Batch: 220502 Type: In-Process Materials Matrix: Oil / Liquid - Hemp Seed Oil Unit Mass (g):

Received: 05/09/2022 Completed: 05/20/2022 Client Permahill Extracts 427 Hume Bedford Pike Paris, KY 40361 USA Lic. #: P_0413

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	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: Christopher Ware CEO Date: 06/02/2022

Tested By: Scott Caudill Senior Scientist Date: 05/19/2022





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Pesticides - CA DCC

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Hemp Forte

Sample ID: SA-220509-9125 Batch: 220502 Type: In-Process Materials Matrix: Oil / Liquid - Hemp Seed Oil Unit Mass (g):

Received: 05/09/2022 Completed: 05/20/2022

Client

Permahill Extracts 427 Hume Bedford Pike Paris, KY 40361 USA Lic. #: P_0413

Reporting Limit Appendix

Heavy Metals - Colorado CDPHE

Analyte	Limit (ppb) A	nalyte	Limit (ppb)
Arsenic	1500 L	ead	500
Cadmium	500 M	1ercury	1500

Microbials - Colorado CDPHE

Analyte	Limit (CFU/ g) Analyte	Limit (CFU/ g)
Coliforms	100 Aerobic Bacteria	10000

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

Analyte	L	imit (ppb)	Analyte		Limit (ppb)
Aldicarb		30	Imidacloprid		3000
Azoxystrobin		40000	Kresoxim methyl		1000
Bifenazate		5000	Malathion		5000
Boscalid		10000	Metalaxyl		15000
Carbaryl		500	Methiocarb		30
Carbofuran		30	Methomyl		100
Chloranthranilipro	le	40000	Mevinphos		30
Chlorfenapyr		30	Myclobutanil		9000
Clofentezine		500	Naled		500
Coumaphos		30	Oxamyl		200
Cypermethrin		1000	Paclobutrazol		30
Daminozide		30	Phosmet		200
Diazinon		200	Piperonyl Butoxide	e	8000
Dichlorvos		30	Prallethrin		400
Dimethoate		30	Propiconazole		20000
Dimethomorph		20000	Propoxur		30
Ethoprophos		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	

