



Certificate of Analysis

Customer

Loud Spectrum/Sauce Terps
1424 East Wilshire Ave.
Santa Ana, CA 92705-4423
Loud Spectrum



Overall Batch Results	
PASS	
Potency N/A	Terpene Profile Tested
Foreign Material N/A	Water Activity N/A
Moisture Content N/A	Microbiological N/A
Mycotoxin Analysis N/A	Pesticides PASS
Heavy Metals PASS	Residual Solvents PASS

Sample ID: 20AR000271
Sample Type: Hemp Concentrate
Collected Date: 09/17/2020
Received Date: 09/18/2020
Sample Size: 5 mL
Batch Number: 328JH20I15
COA released: 09/29/2020 9:58 AM
Sample Name: Jack Herer

Terpene Profile

Date Tested: 09/22/2020 Technician: JD
Instrument Type: GC-MS

Analyte	Result mg/g	Result %	LOD %	LOQ %
alpha-Terpinolene	341.67	34.167	0.020	0.050
D-Limonene	57.53	5.753	0.010	0.030
cis/trans-beta-Ocimene	50.22	5.022	0.010	0.050
Alpha-Humulene	42.79	4.279	0.010	0.040
Beta-Pinene	30.41	3.041	0.010	0.030
(-)-Isopulegol	ND	ND	0.010	0.040
Alpha-Bisabolol	ND	ND	0.010	0.040
Alpha-Cedrene	<LOQ	<LOQ	0.010	0.050
Alpha-Pinene	<LOQ	<LOQ	0.010	0.030
Alpha-Terpinene	ND	ND	0.010	0.030
Alpha-Terpineol	ND	ND	0.020	0.050
Beta-Myrcene	<LOQ	<LOQ	0.010	0.040
Camphene	ND	ND	0.010	0.030
Camphor	<LOQ	<LOQ	0.010	0.050
Cedrol	ND	ND	0.010	0.040
cis/trans-Nerolidol	<LOQ	<LOQ	0.020	0.050
Eucalyptol	<LOQ	<LOQ	0.010	0.050
Fenchol	ND	ND	0.010	0.040
Fenchone	ND	ND	0.010	0.040
Gamma-Terpinene	<LOQ	<LOQ	0.010	0.040
Geraniol	ND	ND	0.020	0.070
Geranyl Acetate	<LOQ	<LOQ	0.010	0.040
Guaiol	ND	ND	0.010	0.040
Linalool	<LOQ	<LOQ	0.010	0.040
p-Cymene	<LOQ	<LOQ	0.010	0.040
Pulegone	<LOQ	<LOQ	0.010	0.050
Sabinene	ND	ND	0.010	0.050
Sabinene Hydrate	ND	ND	0.020	0.080
Valencene	ND	ND	0.010	0.040
Total Terpenes	522.62			

Pesticides

Date Tested: 09/22/2020 Technician: JD

Instrument Type: LC-MS

Analyte	Result	Units	LOQ	Action Level	Result	Analyte	Result	Units	LOQ	Action Level	Result
Fenpyroximate	ND	ppm	0.07	0.40	Pass	Abamectin	ND	ppm	0.13	0.50	Pass
Acephate	ND	ppm	0.05	0.40	Pass	Acequinocyl	ND	ppm	1.11	2.00	Pass
Acetamiprid	ND	ppm	0.03	0.20	Pass	Aldicarb	ND	ppm	0.06	0.40	Pass
Azoxystrobin	ND	ppm	0.06	0.20	Pass	Bifenazate	ND	ppm	0.04	0.20	Pass
Bifenthrin	ND	ppm	0.06	0.20	Pass	Boscalid	ND	ppm	0.14	0.40	Pass

NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; CFU/g = Colony forming units per 1 gram; TNTC = Too numerous to count

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Pesticides											
Date Tested: 09/22/2020 Technician: JD						Instrument Type: LC-MS					
Analyte	Result	Units	LOQ	Action Level	Result	Analyte	Result	Units	LOQ	Action Level	Result
Carbaryl	ND	ppm	0.09	0.20	Pass	Carbofuran	ND	ppm	0.04	0.20	Pass
Chlorantraniliprole	ND	ppm	0.06	0.20	Pass	Chlorfenapyr	ND	ppm	0.32	0.20	Pass
Chlorpyrifos	ND	ppm	0.13	0.20	Pass	Clofentezine	ND	ppm	0.06	0.20	Pass
Cyfluthrin	ND	ppm	0.42	1.00	Pass	Cypermethrin	ND	ppm	0.42	1.00	Pass
Daminozide	ND	ppm	0.14	1.00	Pass	Dichlorvos	ND	ppm	0.05	0.10	Pass
Diazinon	ND	ppm	0.04	0.20	Pass	Dimethoate	ND	ppm	0.02	0.20	Pass
Ethoprophos	ND	ppm	0.05	0.20	Pass	Etofenprox	ND	ppm	0.08	0.40	Pass
Etoxazole	ND	ppm	0.05	0.20	Pass	Fenoxycarb	ND	ppm	0.05	0.20	Pass
Fipronil	ND	ppm	0.12	0.40	Pass	Flonicamid	ND	ppm	0.04	1.00	Pass
Fludioxonil	ND	ppm	0.11	0.40	Pass	Hexythiazox	ND	ppm	0.32	1.00	Pass
Imazalil	ND	ppm	0.07	0.20	Pass	Imidacloprid	ND	ppm	0.06	0.40	Pass
Kresoxim-methyl	ND	ppm	0.09	0.40	Pass	Malathion	ND	ppm	0.05	0.20	Pass
Metalaxyl	ND	ppm	0.05	0.20	Pass	Methiocarb	ND	ppm	0.06	0.20	Pass
Methomyl	ND	ppm	0.07	0.40	Pass	Methyl parathion	ND	ppm	0.08	0.20	Pass
MGK-264	ND	ppm	.09	0.20	Pass	Myclobutanil	ND	ppm	0.06	0.20	Pass
Naled	ND	ppm	0.06	0.50	Pass	Oxamyl	ND	ppm	0.13	1.00	Pass
Pacloutrazol	ND	ppm	0.09	0.40	Pass	Permethrin (both)	ND	ppm	0.04	0.20	Pass
Phosmet	ND	ppm	0.07	0.20	Pass	Piperonyl butoxide	ND	ppm	1.06	2.0	Pass
Prallethrin	0.08	ppm	0.04	0.20	Pass	Propiconazole	ND	ppm	0.15	0.40	Pass
Propoxur	ND	ppm	0.04	0.20	Pass	Pyrethrins	ND	ppm	0.34	1.00	Pass
Pyridaben	ND	ppm	0.04	0.20	Pass	Spinosad	ND	ppm	0.03	0.20	Pass
Spiromesifen	ND	ppm	0.04	0.20	Pass	Spirotetramat	ND	ppm	0.04	0.20	Pass
Spiroxamine	ND	ppm	0.1	0.40	Pass	Tebuconazole	ND	ppm	0.06	0.40	Pass
Thiacloprid	ND	ppm	0.03	0.20	Pass	Thiamethoxam	ND	ppm	0.03	0.20	Pass
Trifloxystrobin	ND	ppm	0.04	0.20	Pass						


Heavy Metals											
Date Tested: 09/22/2020 Technician: JD						Instrument Type: ICP-MS					
Analyte	Result	Units	LOQ	Action Level	Result	Analyte	Result	Units	LOQ	Action Level	Result
Arsenic	ND	mcg/kg	55.9	200	Pass	Cadmium	ND	mcg/kg	37.5	200	Pass
Lead	ND	mcg/kg	233.6	500	Pass	Mercury	ND	mcg/kg	25.8	100	Pass

Residual Solvents											
Date Tested: 09/22/2020 Technician: JD						Instrument Type:					
Analyte	Result	Units	LOQ	Action Level	Result	Analyte	Result	Units	LOQ	Action Level	Result
1,2-Dimethoxyethane	ND	mcg/g	34.02	100	Pass	1,4-Dioxane	ND	mcg/g	39.85	380	Pass
1-Butanol	ND	mcg/g	931.76	5000	Pass	1-Pentanol	ND	mcg/g	909.8	5000	Pass
1-Propanol	ND	mcg/g	879.49	5000	Pass	2-Butanol	ND	mcg/g	985.52	5000	Pass
2-Butanone	ND	mcg/g	818.73	5000	Pass	2-Ethoxyethanol	ND	mcg/g	45.19	160	Pass
2-Methylbutane	ND	mcg/g	1041.79	5000	Pass	Isopropyl Alcohol	ND	mcg/g	924.73	5000	Pass
Acetone	ND	mcg/g	862.29	5000	Pass	Acetonitrile	ND	mcg/g	62.28	410	Pass
Benzene	ND	mcg/g	0.6	2	Pass	Butane	ND	mcg/g	213.27	5000	Pass
Cyclohexane	ND	mcg/g	816.4	3880	Pass	Dichloromethane	ND	mcg/g	155.83	600	Pass
2,2-Dimethylbutane	ND	mcg/g	127.95	290	Pass	2,3-Dimethylbutane	ND	mcg/g	308.93	290	Pass
Ethanol	ND	mcg/g	958.63	5000	Pass	Ethyl Acetate	ND	mcg/g	898.22	5000	Pass
Ethyl Ether	ND	mcg/g	796.91	5000	Pass	Ethylene Oxide	ND	mcg/g	14.81	50	Pass
Heptane	ND	mcg/g	735.05	5000	Pass	Hexane	ND	mcg/g	93.01	290	Pass
Isopropyl Acetate	ND	mcg/g	842.81	5000	Pass	Methanol	ND	mcg/g	385.51	3000	Pass
Methylpropane	ND	mcg/g	246.74	5000	Pass	2-Methylpentane	ND	mcg/g	308.93	290	Pass
3-Methylpentane	ND	mcg/g	99.68	290	Pass	N,N-Dimethylformamide	ND	mcg/g	157.86	880	Pass
Pentane	ND	mcg/g	607.34	5000	Pass	Propane	ND	mcg/g	356.95	5000	Pass
Pyridine	ND	mcg/g	45.77	200	Pass	Tetrahydrofuran	ND	mcg/g	175.79	720	Pass
Toluene	ND	mcg/g	151.29	890	Pass	Total Xylenes	ND	mcg/g	834.35	2170	Pass

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Approved by:



Jonathan DeRoeck
Technical Manager



Percy Shorter
QA Manager

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