

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 85209  
 Order Name: Sleep Spray  
 Batch#: CBDSL092921  
 Received: 10/02/2021  
 Completed: 10/13/2021

# JOIYA

Joiya  
 8000 Avalon Blvd, Suite 100  
 Alpharetta GA, 30009  
 (770) 239-6597  
 rachel@joiya.life



### Sample



**N/D**  
D9-THC

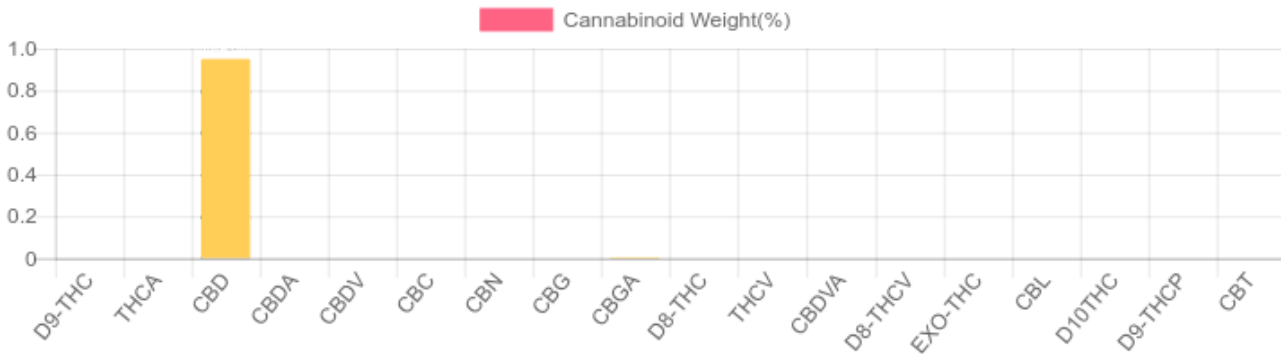
**0.951%**  
Total CBD

### Cannabinoids Test

HPLC-DAD  
 GSL SOP 400

UPLOADED: 10/12/2021 09:03:31

Cannabinoids	LOQ(mg/g)	weight(%)	mg/g
D9-THC	0.1916	N/D	N/D
THCA	0.1916	N/D	N/D
CBD	0.1916	<b>0.951%</b>	<b>9.506</b>
CBDA	0.1916	N/D	N/D
CBDV	0.1916	N/D	N/D
CBC	0.1916	N/D	N/D
CBN	0.1916	N/D	N/D
CBG	0.1916	N/D	N/D
CBGA	0.1916	N/D	N/D
D8-THC	0.1916	N/D	N/D
THCV	0.1916	N/D	N/D
CBDVA	0.1916	N/D	N/D
D8-THCV	0.1916	N/D	N/D
EXO-THC	0.1916	N/D	N/D
CBL	0.1916	N/D	N/D
D10THC	0.1916	N/D	N/D
D9-THCP	0.1916	N/D	N/D
CBT	0.1916	N/D	N/D
TOTAL D9-THC		<b>N/D</b>	<b>N/D</b>
TOTAL CBD*		<b>0.951%</b>	<b>9.506</b>
TOTAL CANNABINOIDS		<b>0.951%</b>	<b>9.506</b>



\*Total CBD = CBD + CBDA x 0.877  
 N/D - Not Detected, B/LOQ - Below Limit of Quantification

Ben Witten, MS, MT., Lab Director

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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/02/2021 17:27:15

UPLOADED: 10/06/2021 09:39:19

GC-MS/MS

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	N/D	0.100	0.010
CHLORDANE	0.100	N/D	0.100	0.010
CHLORFENAPYR	0.100	N/D	0.100	0.010
COUMAPHOS	0.100	N/D	0.100	0.010

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CYFLUTHRIN	2.000	N/D	0.100	0.010
CYPERMETHRIN	1.000	N/D	0.100	0.010
PARATHION-METHYL	0.100	N/D	0.100	0.010
PENTACHLORONITROBENZENE	0.100	N/D	0.100	0.010

LC-MS/MS

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.005
ACEPHATE	0.100	N/D	0.005	0.001
ACEQUINOCYL	0.100	N/D	0.005	0.005
ACETAMIPRID	0.100	N/D	0.005	0.005
ALDICARB	0.100	N/D	0.005	0.005
AZOXYSTROBIN	0.100	N/D	0.005	0.001
BIFENAZATE	0.100	N/D	0.005	0.001
BIFENTHRIN	3.000	N/D	0.005	0.005
BOSCALID	0.100	N/D	0.005	0.005
CARBARYL	0.500	N/D	0.005	0.001
CARBOFURAN	0.100	N/D	0.005	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005
CHLORPYRIFOS	0.100	N/D	0.005	0.005
CLOFENTEZINE	0.100	N/D	0.005	0.005
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZINON	0.100	N/D	0.005	0.005
DICHLORVOS	0.100	N/D	0.005	0.001
DIMETHOATE	0.100	N/D	0.005	0.001
DIMETHOMORPH	2.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	N/D	0.005	0.001
ETOFENPROX	0.100	N/D	0.005	0.005
ETOXAZOLE	0.100	N/D	0.050	0.005
FENHEXAMID	0.100	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.005
FENPYROXIMATE	0.100	N/D	0.005	0.005
FIPRONIL	0.100	N/D	0.005	0.005
FLONICAMID	0.100	N/D	0.025	0.005
FLUDIOXONIL	0.100	N/D	0.005	0.005
HEXYTHIAZOX	0.100	N/D	0.005	0.005
IMAZALIL	0.100	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMIDACLOPRID	5.000	N/D	0.005	0.001
KRESOXIM-METHYL	0.100	N/D	0.005	0.005
MALATHION	0.500	N/D	0.005	0.001
METALAXYL	2.000	N/D	0.005	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	1.000	N/D	0.005	0.001
MEVINPHOS	0.100	N/D	0.005	0.001
MYCLOBUTANIL	0.100	N/D	0.005	0.005
NALED	0.100	N/D	0.005	0.001
OXAMYL	0.500	N/D	0.005	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.005
PERMETHRINS	0.500	N/D	0.005	0.005
PHOSMET	0.100	N/D	0.005	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.005	0.005
PRALLETHRIN	0.100	N/D	0.005	0.005
PROPICONAZOLE	0.100	N/D	0.010	0.005
PROPOXUR	0.100	N/D	0.005	0.001
PYRETHRINS	0.500	N/D	0.005	0.001
PYRIDABEN	0.100	N/D	0.005	0.005
SPINETORAM	0.100	N/D	0.005	0.005
SPINOSAD	0.100	N/D	0.005	0.005
SPIROMESIFEN	0.100	N/D	0.005	0.001
SPIROTETRAMAT	0.100	N/D	0.005	0.005
SPIROXAMINE	0.100	N/D	0.005	0.001
TEBUCONAZOLE	0.100	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.005	0.001
THIAMETHOXAM	5.000	N/D	0.005	0.001
TRIFLOXYSTROBIN	0.100	N/D	0.005	0.005

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level

Ben Witten, MS, MT., Lab Director

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### RESIDUAL SOLVENTS:

HS-GC-MS

GSL SOP 405

Uploaded: 10/04/2021 10:23:33

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
1,1-DICHLOROETHENE	8	N/D	0.63	0.6
1,2- DICHLOROETHANE	2	N/D	0.12	0.012
1,2-DICHLOROETHENE	5	N/D	0.73	0.09
ACETONE	5,000	N/D	140	9
ACETONITRILE	410	N/D	25	0.72
BENZENE	1	N/D	1	0.6
BUTANE	5,000	N/D	50	48
CHLOROFORM	1	N/D	1	0.5
ETHYL ACETATE	5,000	N/D	140	2.4
ETHYL ETHER	5,000	N/D	140	6
ETHYLENE OXIDE	1	N/D	2	0.6
ISOPROPYL ALCOHOL	5,000	153	140	3
METHANOL	3,000	N/D	100	6
METHYLENE CHLORIDE	125	N/D	1.5	1.5
N-HEPTANE	5,000	N/D	140	6
N-HEXANE	290	N/D	18	0.06
PENTANE	5,000	N/D	140	9
PROPANE	5,000	N/D	30	30
TOLUENE	890	N/D	53	0.9
TRICHLOROETHENE	1	N/D	1	0.3
XYLENES	150	N/D	130	1.8

### Notes

Ethanol is part of ingredients

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### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 10/13/2021 15:05:30

### MICROBIAL ANALYSIS:

Test	SOP	Test Method	Device Used	LOD	Actual Result
TOTAL YEAST AND MOLD	406.01	USP 61/62†	ARIAMX PCR	1,000 CFU/G	< 1,000 CFU/G
AEROBIC BACTERIA COUNT	406.01	USP 61/62†	ARIAMX PCR	10,000 CFU/G	< 10,000 CFU/G
ASPERGILLUS FUMIGATUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	NOT DETECTED
ASPERGILLUS TERREUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	NOT DETECTED
ASPERGILLUS FLAVUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	NOT DETECTED
ASPERGILLUS NIGER***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	NOT DETECTED
STEC E. COLI*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	NOT DETECTED
SALMONELLA*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	NOT DETECTED
ENTEROBACTERIACEAE	406.01	USP 61/62†	ARIAMX PCR	100 CFU/G	< 100 CFU/G
COLIFORM	406.01	USP 61/62†	ARIAMX PCR	100 CFU/G	< 100 CFU/G

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

\* STEC and Salmonella run as Multiplex

\*\* CFU/g Calculation based on MIP/Extract matrix

\*\*\* Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

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### Heavy Metals Analysis:

ICP-MS  
GSL SOP 403

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Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	N/D
MERCURY (HG)	100	N/D
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb, Limit of Detection (LOD) is 3 ppb

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