

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Joy Organics CBD Softgels

**PRODUCT STRENGTH:** 25 mg **FILL LOT NUMBER:** 21049A

GCND2520-05 / 20328A **SOFTGEL LOT NUMBER** 

> **BEST BY DATE:** 04/13/2022

## \*Click on the links to view third-party reports\*

### Physical Atttributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	N/A	PASS
Appearance	SOP-100	Dry, ovoid softgel capsules in container with lid and shrinkband	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrin bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Suffici cushion material exists. Box taped and secure.	PASS

### Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	SOP-111	25-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	27.5 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008: Product specification for Softgels, Oregon Action limits apply	ND	PASS
Microbial - Total Plate Count	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Coliforms and bacteria (including ecoli and salmonella)	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

<sup>\*</sup> Level of Quantitation, † Parts Per Million

Quality Certified by: Kei Horikawa Kei Horikawa

02/25/2021

Date

Quality Control Manager

### TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix: Concentrates & Extracts Type: Other

Sample Size 1 units Batch Size.

Batch#:

Produced, N/A Collected: 11/05/2020 Received: 11/05/2020 Completed: 11/11/2020

Van Nuys, CA 91406



ND

Total THC

27.4953 mg/serving

Total CBD

28.1495 mg/serving

Total Cannabinoids

Pass

Cannabinoids

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results	
	mg/g	mg/g	rng/serving	ing/t	
CBD	0.0059	0.018	27.4953	65.4650	E E
CBDV	0.0042	0.0126	0.6542	1.5576	
CBC	0,0009	0.0027	ND	ND	
CBDa	0.0012	0.0037	ND	ND	
CBG	0.0047	0.0143	ND	ND	
CBGa	0.0016	0.005	ND	ND	
CBN	0.0014	0,0041	ND	ND	
THCa	0.002	0.006	ND	ND	
THCV	0.0036	0,0111	ND	ND	
∆8-THC	0.0038	0.0115	ND	ND	
Δ9-THC	0,0038	0.0115	ND	ND	
Total			28.1495	67.0226	

1 serving = 1 soft gel capsule, 0.42 grams; 30.0 servings per package; 0.0 mg/package Total THC; 824.8588 mg/package Total CBD;

Date Tested: 11/09/2020

Total THC = THCa \* 0.877 + d9-THC

Total CBD - CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.







LABORATORY Accreditation No. 73653







Musa Aman **COA Review** 11/11/2020

CannaSafe - LA 7027 Hayvenhurst Ave. Van Nuys, CA 91406 (818) 922-2416 https://www.csalabs.com Lic# C8-0009040-LIC

## TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix: Concentrates & Extracts

Type: Other Sample Size: 1 units Batch Size:

Batch#:

Produced: N/A Collected: 11/05/2020 Received: 11/05/2020 Completed: 11/11/2020

Pesticides

**Pass** 

Testing method: LCMS & GCMS-SOP 301 and 302

Name	Status	Results	Limit	LOQ	LOD	Analyte	Status	Results	Limit	LOQ	LOD	Analyte
Acephate         0.005         0.017         0.1         ND         Pass         Hexythiazox         0.0237         0.079         0.1         ND           Acequinocyl         0.0193         0.064         0.1         ND         Pass         Imazalli *         0.0073         0.026         0.0077         ND           Acetamiprid         0.0073         0.024         0.1         ND         Pass         Imidacloprid         0.0053         0.018         5         ND           Aldicarb *         0.0094         0.031         0.0094         ND         Pass         Kresoxim Methyl         0.0182         0.061         0.1         ND           Azoxystrobin         0.0159         0.05         0.1         ND         Pass         Malathion         0.015         0.05         0.5         ND           Bifenathrin         0.029         0.097         3         ND         Pass         Methiocarb *         0.0103         0.04         0.0103         ND           Bifenathrin         0.022         0.097         3         ND         Pass         Methiorarb *         0.001         0.036         1         ND           Carbaryl         0.052         0.118         0.5         ND		µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Acequinocyl         0.0193         0.064         0.1         ND         Pass         Imazalil*         0.0077         0.026         0.0077         ND           Acetamiprid         0.0073         0.024         0.1         ND         Pass         Imidacloprid         0.0053         0.018         5         ND           Aldicarb *         0.0094         0.031         0.0094         ND         Pass         Kresoxim Methyl         0.015         0.05         0.1         ND           Azoxystrobin         0.015         0.05         0.1         ND         Pass         Methicorab         0.0160         0.025         2         ND           Bifenthrin         0.029         0.097         3         ND         Pass         Methicorab*         0.0103         0.034         0.0113         ND           Boscalid         0.0172         0.058         0.1         ND         Pass         Methoryl         0.0109         0.036         0.1         ND           Captarin         0.036         0.122         0.7         ND         Pass         Methyl Parathion *         0.0091         0.003         0.0091         ND           Carbaryl         0.0542         0.181         0.5         ND <td>Pass</td> <td>ND</td> <td>0.1</td> <td>0.048</td> <td>0.0143</td> <td>Fludioxonil</td> <td>Pass</td> <td>ND</td> <td>0.1</td> <td>0.003</td> <td>0.0009</td> <td>Abamectin</td>	Pass	ND	0.1	0.048	0.0143	Fludioxonil	Pass	ND	0.1	0.003	0.0009	Abamectin
Acetamiprid 0.0073 0.024 0.1 ND Pass Imidacloprid 0.0053 0.018 5 ND Aldicarh * 0.0094 0.031 0.0094 ND Pass Kresoxim Methyl 0.0182 0.061 0.1 ND Azoxystrobin 0.015 0.05 0.5 ND Bifenazate 0.0129 0.043 0.1 ND Pass Methicarb * 0.0103 0.036 0.025 2 ND Bifenazate 0.0129 0.043 0.1 ND Pass Methicarb * 0.0103 0.036 0.025 2 ND Bifenathrin 0.029 0.097 3 ND Pass Methicarb * 0.0103 0.034 0.0103 ND Boscalid 0.0172 0.058 0.1 ND Pass Methomyl 0.0109 0.036 1 ND Captan 0.036 0.12 0.7 ND Pass Methyl Parathion * 0.0091 0.0303 0.0091 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0091 0.0303 0.0091 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0091 0.033 0.1 ND Chlordane * 0.0077 0.026 0.0077 ND Pass Methyl Parathion * 0.0010 0.033 0.1 ND Chlordane * 0.0055 0.032 10 ND Pass Methyl Parathion * 0.0010 0.033 0.1 ND Chlordane * 0.0055 0.0182 0.0055 ND Pass Naled 0.0107 0.036 0.1 ND Chlordane * 0.0055 0.0182 0.0055 ND Pass Oxamyl 0.0071 0.024 0.5 ND Chlordane * 0.0057 0.066 0.0197 ND Pass Paclobutrazol * 0.0092 0.031 0.0092 ND Chlordane * 0.0094 0.0197 0.066 0.0197 ND Pass Paclobutrazol * 0.0092 0.0092 0.0092 ND Chlordane * 0.0197 0.066 0.0197 ND Pass Permethrin 0.0142 0.048 0.5 ND Clofentezine 0.0216 0.072 0.1 ND Pass Permethrin 0.0142 0.048 0.5 ND Clofentezine 0.0160 0.052 0.0197 ND Pass Permethrin 0.0160 0.052 0.019 ND Cypermethrin 0.0105 0.035 1 ND Pass Piperonyl Butoxide 0.0156 0.052 0.010 ND Daminozide * 0.0052 0.017 0.0052 ND Pass Propiconazole 0.013 0.043 0.1 ND DDNP * 0.0051 0.037 0.0083 ND Pass Propiconazole 0.013 0.043 0.1 ND DDNP * 0.0063 0.027 0.0081 ND Pass Propiconazole 0.013 0.0092 0.009 0.009 ND Dimethoare 0.0083 0.028 0.0083 ND Pass Propiconazole 0.0092 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.	Pass	ND	0.1	0.079	0.0237	Hexythiazox	Pass	ND	0.1	0.017	0.005	Acephate
Aldicarb * 0.0094 0.031 0.0094 ND Pass Kresoxim Methyl 0.0182 0.061 0.1 ND Azoxystrobin 0.015 0.05 0.1 ND Pass Malathion 0.015 0.05 0.5 ND Bifenazate 0.0129 0.043 0.1 ND Pass Metalaxyl 0.0076 0.025 2 ND Bifenazate 0.029 0.097 3 ND Pass Methocarb * 0.0103 0.034 0.0103 ND Boscalid 0.0172 0.058 0.1 ND Pass Methomyl 0.0109 0.036 1 ND Captan 0.036 0.12 0.7 ND Pass Methomyl 0.0109 0.036 1 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methomyl 0.0091 0.0303 0.0091 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methomyl 0.0010 0.0303 0.0091 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0011 0.014 0.0041 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0011 0.014 0.0041 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0011 0.014 0.0041 ND Chlorantraniliprole 0.0095 0.032 10 ND Pass Methyl Dass Met	Pass	ND	0.0077	0.026	0.0077	Imazalil *	Pass	ND	0.1	0.064	0.0193	Acequinocyl
Azoxystrobin 0.015 0.05 0.1 ND Pass Malathion 0.015 0.05 0.5 ND Bifenazate 0.0129 0.043 0.1 ND Pass Metalaxyl 0.0076 0.025 2 ND Bifenthrin 0.029 0.097 3 ND Pass Methicarb* 0.0103 0.034 0.0103 ND Boscalid 0.0172 0.058 0.1 ND Pass Methograph 0.0109 0.036 1 ND Captan 0.036 0.12 0.7 ND Pass Methyl Parathion * 0.0091 0.030 0.0091 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0041 0.014 0.0041 ND Carbaryl 0.0542 0.181 0.5 ND Pass Methyl Parathion * 0.0041 0.014 0.0041 ND Carbaryl 0.0095 0.032 10 ND Pass Methograph 0.0109 0.033 0.1 ND Chlorantraniliprole 0.0095 0.032 10 ND Pass Naled 0.0107 0.036 0.1 ND Chlorantraniliprole 0.0095 0.032 10 ND Pass Naled 0.00071 0.024 0.5 ND Chlorantraniliprole 0.0095 0.0182 0.0055 ND Pass Oxamyl 0.0071 0.024 0.5 ND Chlorantraniliprole 0.0095 0.0182 0.0055 ND Pass Paclobutrazol * 0.0092 0.031 0.0092 ND Chlorpyrifos * 0.0197 0.066 0.0197 ND Pass Pass Paclobutrazol * 0.0092 0.031 0.0092 ND Chlorpyrifos * 0.0197 0.066 0.0197 ND Pass Permethrin 0.0142 0.048 0.5 ND Coumaphos * 0.0196 0.065 0.0196 ND Pass Permethrin 0.0142 0.048 0.5 ND Cygermethrin 0.0107 0.036 2 ND Pass Piperonyl Butoxide 0.0156 0.052 3 ND Cypermethrin 0.0107 0.036 2 ND Pass Piperonyl Butoxide 0.0156 0.052 3 ND DDVP * 0.0052 0.017 0.0052 ND Pass Propiconazole 0.0138 0.066 0.1 ND DDVP * 0.0053 0.027 0.0081 ND Pass Propiconazole 0.0138 0.0097 ND Diazinon 0.0134 0.045 0.1 ND Pass Propiconazole 0.0136 0.0097 0.033 0.0097 ND Diazinon 0.0134 0.045 0.1 ND Pass Propiconazole 0.0025 0.008 0.5 ND Dimethoate * 0.0083 0.028 0.0083 ND Pass Propiconazole 0.0025 0.008 0.5 ND Dimethoate * 0.0083 0.028 0.0083 ND Pass Propiconazole 0.0025 0.008 0.5 ND Dimethomorph 0.0025 0.008 2 ND Pass Spinosad 0.0002 0.001 0.1 ND Ettoprophos 0.0025 0.008 0.0097 0.1 ND Pass Spinosad 0.0002 0.001 0.1 ND Ettoprophos 0.0025 0.008 0.0097 0.1 ND Pass Spinosad 0.0009 0.009 0.1 ND Pass Spinosad 0.0009 0.009 0.1 ND Pass Spinosad 0.0009 0.006 0.1 ND Pass	Pass	ND	5	0.018	0.0053	Imidacloprid	Pass	ND	0.1	0.024	0.0073	Acetamiprid
Bifenazate         0.0129         0.043         0.1         ND         Pass         Metalaxyl         0.0076         0.025         2         ND           Bifenthrin         0.029         0.097         3         ND         Pass         Methiocarb *         0.0103         0.034         0.0103         ND           Boscalid         0.0172         0.058         0.1         ND         Pass         Methomyl         0.0103         0.036         1         ND           Captan         0.036         0.12         0.7         ND         Pass         Metholy Parathion *         0.0091         0.030         0.0091         ND           Carbaryl         0.0542         0.181         0.5         ND         Pass         Metholphos *         0.0041         0.014         0.0041         ND           Carbaryl         0.0542         0.181         0.5         ND         Pass         Myclobutanil         0.01         0.013         0.1         ND           Chlordran *         0.0055         0.0182         0.0055         ND         Pass         Oxamyl         0.0071         0.024         0.5         ND           Chlordrane *         0.0048         0.0159         0.0048         ND	Pass	ND	0.1	0.061	0.0182	Kresoxim Methyl	Pass	ND	0.0094	0.031	0.0094	Aldicarb *
Bifenthrin   0.029   0.097   3   ND   Pass   Methiocarb *   0.0103   0.034   0.0103   ND	Pass	ND	0.5	0.05	0.015	Malathion	Pass	ND	0.1	0.05	0.015	Azoxystrobin
Boscalid   0.0172   0.058   0.1   ND   Pass   Methomyl   0.0109   0.036   1   ND   ND   Captan   0.036   0.12   0.7   ND   Pass   Methyl Parathion *   0.0091   0.0303   0.0091   ND   ND   Carbaryl   0.0542   0.181   0.5   ND   Pass   Mevinphos *   0.0041   0.014   0.0041   ND   Carbofuran *   0.0077   0.026   0.0077   ND   Pass   Myclobutanil   0.01   0.033   0.1   ND   ND   Chlorantraniliprole   0.0095   0.032   10   ND   Pass   Naled   0.0107   0.036   0.1   ND   ND   ND   ND   ND   ND   ND   N	Pass	ND	2	0.025	0.0076	Metalaxyl	Pass	ND	0.1	0.043	0.0129	Bifenazate
Captan         0.036         0.12         0.7         ND         Pass         Methyl Parathion *         0.0091         0.0303         0.0091         ND           Carbaryl         0.0542         0.181         0.5         ND         Pass         Mevinphos *         0.0041         0.014         0.0041         ND           Carbaryl         0.0077         0.026         0.0077         ND         Pass         Myclobutanil         0.01         0.033         0.1         ND           Chlorantraniliprole         0.0095         0.032         10         ND         Pass         Naled         0.0107         0.036         0.1         ND           Chlordrane *         0.0055         0.0182         0.0055         ND         Pass         Oxamyl         0.0071         0.026         0.5         ND           Chlordrane *         0.0048         0.0159         0.0048         ND         Pass         Oxamyl         0.0071         0.026         0.5         ND           Chlordrane *         0.0048         0.0159         0.0048         ND         Pass         Paclobutrazol *         0.0092         0.031         0.0029         ND           Chlordrane *         0.0169         0.0179         ND </td <td>Pass</td> <td>ND</td> <td>0.0103</td> <td>0.034</td> <td>0.0103</td> <td>Methiocarb *</td> <td>Pass</td> <td>ND</td> <td>3</td> <td>0.097</td> <td>0.029</td> <td>Bifenthrin</td>	Pass	ND	0.0103	0.034	0.0103	Methiocarb *	Pass	ND	3	0.097	0.029	Bifenthrin
Carbaryl         0.0542         0.181         0.5         ND         Pass         Mevinphos *         0.0041         0.014         0.0041         ND           Carbofuran *         0.0077         0.026         0.0077         ND         Pass         Myclobutanil         0.01         0.033         0.1         ND           Chlorantraniliprole         0.0095         0.032         10         ND         Pass         Naled         0.0107         0.036         0.1         ND           Chlordane *         0.0055         0.0182         0.0055         ND         Pass         Oxamyl         0.0071         0.024         0.5         ND           Chlordraneyr *         0.0048         0.0159         0.0048         ND         Pass         Paclobutrazol *         0.0092         0.031         0.0092         ND           Chlorpyrifos *         0.0197         0.066         0.0197         ND         Pass         Pentachloronitrobenzene         0.0084         0.0279         0.1         ND           Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065 <td>Pass</td> <td>ND</td> <td>1</td> <td>0.036</td> <td>0.0109</td> <td>Methomyl</td> <td>Pass</td> <td>ND</td> <td>0.1</td> <td>0.058</td> <td>0.0172</td> <td>Boscalid</td>	Pass	ND	1	0.036	0.0109	Methomyl	Pass	ND	0.1	0.058	0.0172	Boscalid
Carbofuran *         0.0077         0.026         0.0077         ND         Pass         Myclobutanil         0.01         0.033         0.1         ND           Chlorantraniliprole         0.0095         0.032         10         ND         Pass         Naled         0.0107         0.036         0.1         ND           Chlordane *         0.0055         0.0182         0.0055         ND         Pass         Oxamyl         0.0071         0.024         0.5         ND           Chlordany *         0.0048         0.0159         0.0048         ND         Pass         Paclobutrazol *         0.0092         0.031         0.0092         ND           Chlorpyrifos *         0.0197         0.066         0.0197         ND         Pass         Pentachloronitrobenzene         0.0084         0.0279         0.1         ND           Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cyfluthrin         0.0107         0.035	Pass	ND	0.0091	0.0303	0.0091	Methyl Parathion *	Pass	ND	0.7	0.12	0.036	Captan
Chlorantraniliprole         0.0095         0.032         10         ND         Pass         Naled         0.0107         0.036         0.1         ND           Chlordane *         0.0055         0.0182         0.0055         ND         Pass         Oxamyl         0.0071         0.024         0.5         ND           Chlorfenapyr *         0.0048         0.0159         0.0048         ND         Pass         Paclobutrazol *         0.0092         0.031         0.0092         ND           Chlorpyrifos *         0.0197         0.066         0.0197         ND         Pass         Pentachloronitrobenzene         0.0084         0.0279         0.1         ND           Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cypermethrin         0.0107         0.036         2         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017	Pass	ND	0.0041	0.014	0.0041	Mevinphos *	Pass	ND	0.5	0.181	0.0542	Carbaryl
Chlordane *         0.0055         0.0182         0.0055         ND         Pass         Oxamyl         0.0071         0.024         0.5         ND           Chlorfenapyr *         0.0048         0.0159         0.0048         ND         Pass         Paclobutrazol *         0.0092         0.031         0.0092         ND           Chlorpyrifos *         0.0197         0.066         0.0197         ND         Pass         Pentachloronitrobenzene         0.0084         0.0279         0.1         ND           Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cyfluthrin         0.0107         0.036         2         ND         Pass         Piperonyl Butoxide         0.0156         0.052         3         ND           Cypermethrin         0.0105         0.035         1         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           Daminozide *         0.0052         0.017	Pass	ND	0.1	0.033	0.01	Myclobutanil	Pass	ND	0.0077	0.026	0.0077	Carbofuran *
Chlorfenapyr *         0.0048         0.0159         0.0048         ND         Pass         Paclobutrazol *         0.0092         0.031         0.0092         ND           Chlorpyrifos *         0.0197         0.066         0.0197         ND         Pass         Pentachloronitrobenzene         0.0084         0.0279         0.1         ND           Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cyfluthrin         0.0107         0.036         2         ND         Pass         Piperonyl Butoxide         0.0156         0.052         3         ND           Cypermethrin         0.0105         0.035         1         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           Diazinon         0.0144         0.045	Pass	ND	0.1	0.036	0.0107	Naled	Pass	ND	10	0.032	0.0095	Chlorantraniliprole
Chlorpyrifos *         0.0197         0.066         0.0197         ND         Pass         Pentachloronitrobenzene         0.084         0.0279         0.1         ND           Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cyfluthrin         0.0107         0.036         2         ND         Pass         Piperonyl Butoxide         0.0156         0.052         3         ND           Cypermethrin         0.0105         0.035         1         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           DDVP *         0.0081         0.027         0.0081         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           Diazinon         0.0134         0.045         0.1 </td <td>Pass</td> <td>ND</td> <td>0.5</td> <td>0.024</td> <td>0.0071</td> <td>Oxamyl</td> <td>Pass</td> <td>ND</td> <td>0.0055</td> <td>0.0182</td> <td>0.0055</td> <td>Chlordane *</td>	Pass	ND	0.5	0.024	0.0071	Oxamyl	Pass	ND	0.0055	0.0182	0.0055	Chlordane *
Clofentezine         0.0216         0.072         0.1         ND         Pass         Permethrin         0.0142         0.048         0.5         ND           Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cyfluthrin         0.0107         0.036         2         ND         Pass         Piperonyl Butoxide         0.0156         0.052         3         ND           Cypermethrin         0.0105         0.035         1         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           DDVP *         0.0081         0.027         0.0081         ND         Pass         Propoxur *         0.0097         0.033         0.0097         ND           Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083 <t< td=""><td>Pass</td><td>ND</td><td>0.0092</td><td>0.031</td><td>0.0092</td><td>Paclobutrazol *</td><td>Pass</td><td>ND</td><td>0.0048</td><td>0.0159</td><td>0.0048</td><td>Chlorfenapyr *</td></t<>	Pass	ND	0.0092	0.031	0.0092	Paclobutrazol *	Pass	ND	0.0048	0.0159	0.0048	Chlorfenapyr *
Coumaphos *         0.0196         0.065         0.0196         ND         Pass         Phosmet         0.0138         0.046         0.1         ND           Cyfluthrin         0.0107         0.036         2         ND         Pass         Piperonyl Butoxide         0.0156         0.052         3         ND           Cypermethrin         0.0105         0.035         1         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           DDVP *         0.0081         0.027         0.0081         ND         Pass         Propoxur *         0.0097         0.033         0.0097         ND           Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Ethoprophos *         0.0112         0.037         0.0112	Pass	ND	0.1	0.0279	0.0084	Pentachloronitrobenzene	Pass	ND	0.0197	0.066	0.0197	Chlorpyrifos *
Cyfluthrin         0.0107         0.036         2         ND         Pass         Piperonyl Butoxide         0.0156         0.052         3         ND           Cypermethrin         0.0105         0.035         1         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           DDVP *         0.0081         0.027         0.0081         ND         Pass         Propoxur *         0.0097         0.033         0.0097         ND           Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Dimethomorph         0.0025         0.008         2         ND         Pass         Spinosad         0.0042         0.014         0.1         ND           Etofenprox *         0.0247         0.082         0.0247 <td< td=""><td>Pass</td><td>ND</td><td>0.5</td><td>0.048</td><td>0.0142</td><td>Permethrin</td><td>Pass</td><td>ND</td><td>0.1</td><td>0.072</td><td>0.0216</td><td>Clofentezine</td></td<>	Pass	ND	0.5	0.048	0.0142	Permethrin	Pass	ND	0.1	0.072	0.0216	Clofentezine
Cypermethrin         0.0105         0.035         1         ND         Pass         Prallethrin         0.018         0.06         0.1         ND           Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           DDVP *         0.0081         0.027         0.0081         ND         Pass         Propoxur *         0.0097         0.033         0.0097         ND           Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Dimethomorph         0.0025         0.008         2         ND         Pass         Spinetoram         0.0042         0.014         0.1         ND           Ethoprophos *         0.0112         0.037         0.0112         ND         Pass         Spinosad         0.0022         0.001         0.1         ND           Etofenprox *         0.0247         0.082         0.0247         <	Pass	ND	0.1	0.046	0.0138	Phosmet	Pass	ND	0.0196	0.065	0.0196	Coumaphos *
Daminozide *         0.0052         0.017         0.0052         ND         Pass         Propiconazole         0.013         0.043         0.1         ND           DDVP *         0.0081         0.027         0.0081         ND         Pass         Propoxur *         0.0097         0.033         0.0097         ND           Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Dimethomorph         0.0025         0.008         2         ND         Pass         Spinetoram         0.0042         0.014         0.1         ND           Ethoprophos *         0.0112         0.037         0.0112         ND         Pass         Spirosad         0.0022         0.001         0.1         ND           Etofenprox *         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0215         0.072         0.1	Pass	ND	3	0.052	0.0156	Piperonyl Butoxide	Pass	ND	2	0.036	0.0107	Cyfluthrin
DDVP *         0.0081         0.027         0.0081         ND         Pass         Propoxur *         0.0097         0.033         0.0097         ND           Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Dimethomorph         0.0025         0.008         2         ND         Pass         Spinetoram         0.0042         0.014         0.1         ND           Ethoprophos *         0.0112         0.037         0.0112         ND         Pass         Spinosad         0.0002         0.001         0.1         ND           Etofenprox *         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0065         0.022         0.0065         ND           Fenhexamid         0.0215         0.072         0.1         <	Pass	ND	0.1	0.06	0.018	Prallethrin	Pass	ND	1	0.035	0.0105	Cypermethrin
Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Dimethomorph         0.0025         0.008         2         ND         Pass         Spinetoram         0.0042         0.014         0.1         ND           Ethoprophos *         0.0112         0.037         0.0112         ND         Pass         Spinosad         0.0002         0.001         0.1         ND           Etofenprox *         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0068         0.023         0.1         ND           Fenhexamid         0.0215         0.072         0.1         ND         Pass         Spiroxamine *         0.0065         0.022         0.0065         ND	Pass	ND	0.1	0.043	0.013	Propiconazole	Pass	ND	0.0052	0.017	0.0052	Daminozide *
Diazinon         0.0134         0.045         0.1         ND         Pass         Pyrethrins         0.0025         0.008         0.5         ND           Dimethoate *         0.0083         0.028         0.0083         ND         Pass         Pyridaben         0.0236         0.079         0.1         ND           Dimethomorph         0.0025         0.008         2         ND         Pass         Spinotarm         0.0042         0.014         0.1         ND           Ethoprophos *         0.0112         0.037         0.0112         ND         Pass         Spinosad         0.0002         0.001         0.1         ND           Etofenprox *         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0068         0.023         0.1         ND           Fenhexamid         0.0215         0.072         0.1         ND         Pass         Spiroxamine *         0.0065         0.022         0.0065         ND	Pass	ND	0.0097	0.033	0.0097	Propoxur *	Pass	ND	0.0081	0.027	0.0081	DDVP*
Dimethomorph         0.0025         0.008         2         ND         Pass         Spinetoram         0.0042         0.014         0.1         ND           Ethoprophos*         0.0112         0.037         0.0112         ND         Pass         Spinosad         0.0002         0.001         0.1         ND           Etofenprox*         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0068         0.023         0.1         ND           Fenhexamid         0.0215         0.072         0.1         ND         Pass         Spiroxamine*         0.0065         0.022         0.0065         ND	Pass	ND	0.5	0.008	0.0025		Pass	ND	0.1	0.045	0.0134	Diazinon
Ethoprophos *         0.0112         0.037         0.0112         ND         Pass         Spinosad         0.0002         0.001         0.1         ND           Etofenprox *         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0068         0.023         0.1         ND           Fenhexamid         0.0215         0.072         0.1         ND         Pass         Spiroxamine *         0.0065         0.022         0.0065         ND	Pass	ND	0.1	0.079	0.0236	Pyridaben	Pass	ND	0.0083	0.028	0.0083	Dimethoate *
Etofenprox *         0.0247         0.082         0.0247         ND         Pass         Spiromesifen         0.0199         0.066         0.1         ND           Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0068         0.023         0.1         ND           Fenhexamid         0.0215         0.072         0.1         ND         Pass         Spiroxamine *         0.0065         0.022         0.0065         ND	Pass	ND	0.1	0.014	0.0042	Spinetoram	Pass	ND	2	0.008	0.0025	Dimethomorph
Etoxazole         0.0269         0.09         0.1         ND         Pass         Spirotetramat         0.0068         0.023         0.1         ND           Fenhexamid         0.0215         0.072         0.1         ND         Pass         Spiroxamine*         0.0065         0.022         0.0065         ND	Pass	ND	0.1	0.001	0.0002	Spinosad	Pass	ND	0.0112	0.037	0.0112	Ethoprophos *
Fenhexamid 0.0215 0.072 0.1 ND Pass Spiroxamine * 0.0065 0.022 0.0065 ND	Pass	ND	0.1	0.066	0.0199	Spiromesifen	Pass	ND	0.0247	0.082	0.0247	Etofenprox *
	Pass	ND	0.1	0.023	0.0068	Spirotetramat	Pass	ND	0.1	0.09	0.0269	Etoxazole
프로마이트 - 프	Pass	ND	0.0065	0.022	0.0065	Spiroxamine *	Pass	ND	0.1	0.072	0.0215	Fenhexamid
Fenoxycarb * 0.0186 0.062 0.0186 ND Pass Tebuconazole 0.0099 0.033 0.1 ND	Pass	ND	0.1	0.033	0.0099	Tebuconazole	Pass	ND	0.0186	0.062	0.0186	Fenoxycarb *
Fenpyroximate 0.0253 0.084 0.1 ND Pass Thiacloprid * 0.0094 0.031 0.0094 ND	Pass	ND	0.0094	0.031	0.0094	Thiacloprid *	Pass	ND	0.1	0.084	0.0253	Fenpyroximate
Fipronil * 0.0228 0.076 0.0228 ND Pass Thiamethoxam 0.005 0.017 5 ND	Pass	ND	5	0.017	0.005	Thiamethoxam	Pass	ND	0.0228	0.076	0.0228	Fipronil *
Flonicamid 0.0073 0.024 0.1 ND Pass Trifloxystrobin 0.0192 0.064 0.1 ND	Pass	ND	0.1	0.064	0.0192	Trifloxystrobin	Pass	ND	0.1	0.024	0.0073	Flonicamid

Date Tested: 11/09/2020







ISO / IEC 17025:2017 ACCREDITED LABORATORY Accreditation No. 73653 Dys AD.

Douglas Duncan Lab Director 11/11/2020



Musa Aman COA Review 11/11/2020

<sup>\*</sup> Denotes Category I pesticides, which fail when detected; LOQ - Limit of Quantitation; LOD - Limit of Detection; NT = Not Tested; ND = Not Detected.

(818) 922-2416 https://www.csalabs.com Lic# C8-0000040-LIC

# TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix: Concentrates & Extracts

Type: Other Sample Size: 1 units Batch Size: Batch#:

Produced: N/A Collected: 11/05/2020 Received: 11/05/2020 Completed: 11/11/2020

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202					Fass
Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	μg/g	µg/g	μg/g	
1,2-Dichloro-Ethane	0.1	0.4	1	ND	Pass
Acetone	64.0	214.0	5000	ND	Pass
Acetonitrile	36.0	119.0	410	ND	Pass
Benzene	0.1	0.2	1	ND	Pass
Butane	42.0	141.0	5000	ND	Pass
Chloroform	0.1	0.4	7	ND	Pass
Ethanol	59.0	197.0	5000	334	Pass
Ethyl-Acetate	43.0	144.0	5000	ND	Pass
Ethylene Oxide	0.2	0.6	1	ND	Pass
Ethyl-Ether	40.0	134.0	5000	ND	Pass
Heptane	46.0	154.0	5000	ND	Pass
sopropanol	41.0	138.0	5000	ND	Pass
Methanol	160.0	534.0	3000	ND	
Methylene-Chloride	0.1	0.4	1	ND	Pass
n-Hexane	42.0	139.0	290	ND	Pass
Pentane	69.0	229.0	5000	ND	Pass
Propane	21.0	70.0	5000		Pass
foluene	47.0	156.0		ND	Pass
richloroethene	0.1	0.4	890	ND	Pass
(ylenes	86.0	287.0	2170	ND	Pass
30	00.0	407.0	2170	ND	Pass

Date Tested: 11/09/2020

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.







ISO / IEC 17025:2017 ACCREDITED LABORATORY Accreditation No. 73653 Def. No.

Douglas Duncan Lab Director 11/11/2020



Musa Aman COA Review 11/11/2020 (818) 927 (7416) ntip : //www.csalabs.com DEM CR-0000040-LIC

### TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix, Concentrates & Extracts

Type: Other Sample Size, 1 units

Batch Size

Batch#

Produced N/A Collected: 11/05/2020 Received, 11/05/2020 Completed, 11/11/2020

Traditional Microbials

**Pass** 

Testing method: Petrifilm-SOP 402

Analyte	Limit	Results	Status
	cfu/g	chnā	
Enterobacter	ND	ND	Pass
Salmonella	ND	ND	Pass
E. Coli	ND	ND	Pass
Total aerobic plate count	< 1000	210	Pass
Total coliforms	ND	ND	Pass
Total Yeast & Mold	< 100	ND	Pass

Date Tested: 11/11/2020

LOQ - Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested: ND = Not Detected







LABORATORY Accreditation No. 73653



Douglas Duncan Lab Director 11/11/2020



Musa Aman **COA Review** 11/11/2020

### TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA3208.8077

Matrix: Other

Type: Other Sample Size: 1 units

Batch Size: Batch#. Produced: 11/11/2020 Collected| 11/11/2020 Received: 11/11/2020 Completed: 11/12/2020



Summary		Pass
Not Tested	Not Tested	Not Tested
Total Cannabinoids	Pesticides	Residual Solvents
Not Tested	Not Tested	Not Tested
Microbials	Mycotoxins	Heavy Metals

**Terpenes** 

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	Va	35	%	mg/g
β-Caryophyllene	0.005	0.0173	1.35	13,49
Caryophyllene Oxide	0.029	0.0874	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
α-Humulene	0.006	0.0173	0.08	0.76
y-Terpinene	0.006	0:0168	0.06	0.55
Guaiol	0.011	0:0334	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Camphene	0.005	0.0163	ND	ND
Eucalyptol	0.006	0.0175	ND	ND
Geraniol	0.007	0.0205	ND	ND
Isopulegol	0.009	0.0282	ND	ND
Linalool	0.008	0.0228	ND	ND
Ocimene	0.004	0.0109	ND	ND
p-Cymene	0.005	0.0162	ND	ND
Terpinolene	0.005	0.0168	ND	ND
trans-Nerolidol	0.007	0.0219	ND	ND
α-Bisabolol	0.01	0.0295	ND	ND
α-Pinene	0.006	0.0175	ND	ND
a-Terpinene	0.005	0.0165	ND	ND
β-Myrcene	0.008	0.024	ND	ND
β-Pinene	0.005	0.0147	ND	ND
δ-3-Carene	0.005	0.016	ND	ND
6-Limonene	0.005	0.0159	ND	ND
Total			1.48	14.81

Date Tested, 11/12/2020

NT

Moisture

alyani SOP 103

NT

Water Activity

NT

Foreign Matter

Assurt Impection SQP 600







ISO / IEC 17025.2017 ACCREDITED LABORATORY Accreditation No. 73653



Douglas Duncan Lab Director 11/12/2020



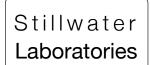
Musa Aman COA Review 11/12/2020

The values reported pertain only to the product tested, R&D Sample Only. Tested as-is/received from client. Unless otherwise stated all Laboratory Quality Control (LQC) samples performed within specifications established by the BCC in 16 CCR section 5730, Sample tested per CALIFORNIA CODE OF REGULATIONS, TITLE 16, DIVISION 42, BUREAU OF CANNABIS CONTROL.











https://portal.a2la.org/scopepdf/4961-01.pdf

#### Sample Handling

test ID sample date 11/28/20 11:07 AM order 9043 labID 0LW103 weight 21.1 g source

Methods	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.1	AriaMx/Hardy
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.11	ICPMS2030

Potency % estimated error 7 Terpenes % estimated error % estimated error % estimated error

potency not tested

terpenes not tested / not required

Solvents MT limit 0LW103 LOQ Pesticides (MT) MT limit 0LW103 LOQ Pesticides (other) 0LW103 LOQ

pesticides not tested / not required not tested / not required

Toxic Metals	MT limit	0LW103	LOQ
arsenic cadmium lead mercury	2 ppm 0.8 ppm 1.2 ppm 0.4 ppm	0.0 ppm 0.0 ppm 0.0 ppm 0.0 ppm	<10ppb <10ppb

Microbial	MT limit	0LW103	LOQ
E. coli	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g

Comments

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid]\_HPLC x volume\_dilution/Mdy. Terpene concentration is calcuated from the equation: [terpene] = (terpene mass)\_GCMS / mdy. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX\_total = 0.877 x XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula  $s_g^2 = \sum (\partial f/\partial i)^2 s_i^2$  where i is the contributor to error. The 95% confidence range is

calculated from the equation: (concentration)  $\pm t_{CL90} \times s_g$ . Sampling error is not

Certified by:

Paula Kosted, PhD (Biochem) Deputy Director 6073 US93N, Olney MT 59927 406-881-2019 rdb@stwlabs.com

Printed 12/3/2020 9:29 AM

# Certificate of Analysis

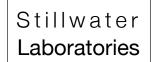






capsule





https://portal.a2la.org/scopepdf/4961-01.pdf

Sample Handling

test ID
type capsule
lab ID 1BT01
unit bottle

sample wt 19.8 g order 9911 sample date 2/23/2021 unit weight 0.6 g

equipment

Methods

weights MSP-7.3.1.3 AUX120.1 potency MSP-7.5.1.5 LC-2030 terpenes MSP-7.5.1.7 QP2020/HS20 pesticides MSP-7.5.1.8 LC-8060 MSP-7.5.1.8 LC-8060 mvcotoxins MSP-7.5.1.1 AriaMx/Hardy microbial solvents MSP-7.5.1.6 QP2020/HS20 MSP-7.5.1.1 ICPMS2030 metals

method

Potency

per bottle

estimated

Terpenes

estimated

estimated

estimated % error

not tested

terpenes not tested / not required

Solvents

MT limit

1BT01

LOQ

Pesticides (MT)

MT limit

1BT01

LOQ Pesticides (other)

1BT01

LOQ

pesticides not tested / not required not tested / not required

Toxic Metals

MT limit

3T01

LOQ

metals not tested / not required

 Microbial
 MT limit
 1BT01
 LOQ

 E. coli
 10 CFU
 0 CFU
 <10 CFU/g</td>

 Salmonella sp.
 10 CFU
 0 CFU
 <10 CFU/g</td>

 molds
 10000 CFU
 0 CFU
 <10k CFU/g</td>

Comments

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid]\_{HPLC} x volume\_dilution/Mdry. Terpene concentration is calcuated from the equation: [terpene] = (terpene mass)\_{GCMS} / m\_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX\_{total} = 0.877 x XXXX + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula  $s_g^2 = \sum (\partial f/\partial i)^2 s_i^2$  where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration)  $\pm$  t\_{CL90} x s\_g. Sampling error is not

Certified by:

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