

1806028-ORC

Sublime Solutions
 500 S. Danebo Street
 Eugene, OR 97402
 541-484-5770

Sample Type: Extracts
 Sample Date: 7/3/2018
 Analysis Date: 7/6/2018
 Report Date: 7/9/2018

Metric Batch ID:
 1A401030000697B000003366
 Client's Batch ID:
 Harvest/Process Date:

Report ID:
BJPS-MRBR

Potency

Method: EPA JAOAC 2015.1
 Potency Analysis Date: 7/6/2018
 Potency Batch ID: CAN_070618A

64.7%

Total
THC

ND




Total
CBD



Samples: MDN-XMT-JZT, BFZ-DXW-WSW

Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
Δ9THC	Delta-9 Tetrahydrocannabinol	1.00	1.26	64.3	65.1	64.7	
THCA	Tetrahydrocannabinolic acid	1.00	0.00	ND	ND	ND	
CBD	Cannabidiol	1.00	0.00	ND	ND	ND	
CBDA	Cannabidiolic acid	1.00	0.00	ND	ND	ND	
Δ8THC	Delta-8 Tetrahydrocannabinol*	1.00	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	1.00	0.00	ND	ND	ND	
CBG	Cannabigerol*	1.00	0.317	2.58	2.59	2.58	
CBGA	Cannabigerolic acid*	1.00	0.00	ND	ND	ND	
CBC	Cannabichromene*	1.00	8.36	1.35	1.47	1.41	
CBCA	Cannabichromenic acid*	1.00	0.00	ND	ND	ND	
CBN	Cannabinol	1.00	0.00	<LOQ	<LOQ	<LOQ	
Total THC	Δ9THC + (THCA × 0.877)		1.26	64.3	65.1	64.7	
Total CBD	CBD + (CBDA × 0.877)		0.00	ND	ND	ND	
Total			1.35	68.2	69.1	68.7	

Safety

Pesticides	Within limits	Analysis Date: 7/6/2018	Pass 
Solvents	Within limits	Analysis Date: 7/6/2018	Pass 
Potency	Within limits	Analysis Date: 7/6/2018	Pass 


 Ian Eustis
 Lab Director


 Aaron Troyer
 Chief Science Officer



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Pesticides Analysis Date: 7/6/2018
 Pesticides Batch ID: PST_070618A

Method: EN 15662
 Unit: µg/g (ppm)

Pass 

Analyte	MDN-XMT-JZT	BFZ-DXW-WSW	Limits	LOQ	Status	Notes	Analyte	MDN-XMT-JZT	BFZ-DXW-WSW	Limits	LOQ	Status	Notes
Abamectin	<LOQ	<LOQ	0.5	0.1	Pass		Metalaxyl	<LOQ	<LOQ	0.2	0.1	Pass	
Acephate	<LOQ	<LOQ	0.4	0.1	Pass		Methiocarb	<LOQ	<LOQ	0.2	0.1	Pass	
Acequinocyl	<LOQ	<LOQ	2.0	1.0	Pass		Methomyl	<LOQ	<LOQ	0.4	0.1	Pass	
Acetamiprid	<LOQ	<LOQ	0.2	0.1	Pass		Methyl Parathion	<LOQ	<LOQ	0.2	0.2	Pass	
Aldicarb	<LOQ	<LOQ	0.4	0.1	Pass		MGK-264	<LOQ	<LOQ	0.2	0.2	Pass	
Azoxystrobin	<LOQ	<LOQ	0.2	0.1	Pass		Myclobutanil	<LOQ	<LOQ	0.2	0.1	Pass	
Bifenazate	<LOQ	<LOQ	0.2	0.1	Pass		Naled	<LOQ	<LOQ	0.5	0.2	Pass	
Bifenthrin	<LOQ	<LOQ	0.2	0.1	Pass		Oxamyl	<LOQ	<LOQ	1.0	0.1	Pass	
Boscalid	<LOQ	<LOQ	0.4	0.1	Pass		Paclobutrazol	<LOQ	<LOQ	0.4	0.1	Pass	
Carbaryl	<LOQ	<LOQ	0.2	0.1	Pass		Permethrins	<LOQ	<LOQ	0.2	0.1	Pass	
Carbofuran	<LOQ	<LOQ	0.2	0.1	Pass		Phosmet	<LOQ	<LOQ	0.2	0.1	Pass	
Chlorantraniliprole	<LOQ	<LOQ	0.2	0.1	Pass		Piperonyl Butoxide	<LOQ	<LOQ	2.0	0.1	Pass	
Chlorfenapyr	<LOQ	<LOQ	1.0	0.1	Pass		Prallethrin	<LOQ	<LOQ	0.2	0.1	Pass	
Chlorpyrifos	<LOQ	<LOQ	0.2	0.1	Pass		Propiconazole	<LOQ	<LOQ	0.4	0.1	Pass	
Clofentezine	<LOQ	<LOQ	0.2	0.1	Pass		Propoxur	<LOQ	<LOQ	0.2	0.1	Pass	
Cyfluthrin	<LOQ	<LOQ	1.0	0.5	Pass		Pyrethrins	<LOQ	<LOQ	1.0	0.5	Pass	
Cypermethrin	<LOQ	<LOQ	1.0	0.1	Pass		Pyridaben	<LOQ	<LOQ	0.2	0.1	Pass	
Daminozide	<LOQ	<LOQ	1.0	0.5	Pass		Spinosad	<LOQ	<LOQ	0.2	0.1	Pass	
Diazinon	<LOQ	<LOQ	0.2	0.1	Pass		Spiromesifen	<LOQ	<LOQ	0.2	0.1	Pass	
Dichlorvos (DDVP)	<LOQ	<LOQ	1.0	0.5	Pass		Spirotetramat	<LOQ	<LOQ	0.2	0.1	Pass	
Dimethoate	<LOQ	<LOQ	0.2	0.1	Pass		Spiroxamine	<LOQ	<LOQ	0.4	0.1	Pass	
Ethoprophos	<LOQ	<LOQ	0.2	0.1	Pass		Tebuconazole	<LOQ	<LOQ	0.4	0.1	Pass	
Etofenprox	<LOQ	<LOQ	0.4	0.1	Pass		Thiacloprid	<LOQ	<LOQ	0.2	0.1	Pass	
Etoxazole	<LOQ	<LOQ	0.2	0.1	Pass		Thiamethoxam	<LOQ	<LOQ	0.2	0.1	Pass	
Fenoxycarb	<LOQ	<LOQ	0.2	0.1	Pass		Trifloxystrobin	<LOQ	<LOQ	0.2	0.1	Pass	
Fenpyroximate	<LOQ	<LOQ	0.4	0.1	Pass								
Fipronil	<LOQ	<LOQ	0.4	0.1	Pass								
Flonicamid	<LOQ	<LOQ	1.0	0.1	Pass								
Fludioxonil	<LOQ	<LOQ	0.4	0.1	Pass								
Hexythiazox	<LOQ	<LOQ	1.0	0.1	Pass								
Imazalil	<LOQ	<LOQ	0.2	0.1	Pass								
Imidacloprid	<LOQ	<LOQ	0.4	0.1	Pass								
Kresoxim-methyl	<LOQ	<LOQ	0.4	0.1	Pass								
Malathion	<LOQ	<LOQ	0.2	0.1	Pass								

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 Client's Batch ID:
 Harvest/Process Date:

Report ID:
BJPS-MRBR



Quality Control Data Pesticides

Pesticides QC Analysis Date: 7/6/2018
 Pesticides QC Batch ID: PST_070618A

Method: EN 15662
 Unit: µg/g (ppm)

Laboratory Pesticides Quality Control Results

Method: EN 15662				Units: ppm (µg/g)				Analysis date: 7/6/18				Batch ID: PST_070618A					
Pesticide	Blank Result	LOQ	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes	Pesticide	Blank Result	LOQ	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes
Abamectin	nd	0.1		1.5	1.0	153	50 - 150		Imazalil	nd	0.1		0.9	1.0	89	50 - 150	
Acephate	nd	0.1		0.9	1.0	94	50 - 150		Imidacloprid	nd	0.1		1.2	1.0	120	50 - 150	
Acequinocyl	nd	1.0		4.3	1.0	430	50 - 150	HB	Kresoxim-methyl	nd	0.1		1.0	1.0	102	50 - 150	
Acetamiprid	nd	0.1		0.9	1.0	95	50 - 150		Malathion	nd	0.1		0.9	1.0	89	50 - 150	
Aldicarb	nd	0.1		0.8	1.0	85	50 - 150		Metalaxyl	nd	0.1		1.1	1.0	109	50 - 150	
Azoxystrobin	nd	0.1		1.1	1.0	111	50 - 150		Methiocarb	nd	0.1		1.3	1.0	126	50 - 150	
Bifenthrin	nd	0.1		3.6	1.0	358	50 - 150	HB	Methomyl	nd	0.1		0.9	1.0	94	50 - 150	
Bifenazate	nd	0.1		1.1	1.0	113	50 - 150		Methyl Parathion	nd	0.1		15.4	10.0	154	30 - 150	ME
Boscalid	nd	0.1		1.3	1.0	129	50 - 150		MGK-264	nd	0.2		10.7	1.0	1072	50 - 150	HB
Carbaryl	nd	0.1		1.1	1.0	107	50 - 150		Myclobutanil	nd	0.1		1.3	1.0	132	50 - 150	
Carbofuran	nd	0.1		1.0	1.0	100	50 - 150		Naled	nd	0.1		0.9	1.0	95	50 - 150	
Chlorantraniliprole	nd	0.1		1.2	1.0	120	50 - 150		Oxamyl	nd	0.1		1.0	1.0	103	50 - 150	
Chlorfenapyr	nd	0.1		1.0	1.0	98	50 - 150		Paclobutrazol	nd	0.1		1.0	1.0	104	50 - 150	
Chlorpyrifos	nd	0.1		1.9	1.0	195	50 - 150	HB	Permethrin	nd	0.1		1.6	1.0	164	50 - 150	HB
Clofentezine	nd	0.1		4.0	1.0	395	50 - 150	HB	Phosmet	nd	0.1		1.0	1.0	96	50 - 150	
Cyfluthrin	nd	0.5		4.0	1.0	398	50 - 150	HB	Piperonyl Butoxide	nd	0.1		1.1	1.0	113	50 - 150	
Cypermethrin	nd	0.1		1.8	1.0	178	50 - 150	HB	Prallethrin	nd	0.1		1.2	1.0	118	50 - 150	
Daminozide	nd	0.5		0.2	1.0	17	10 - 150		Propiconazole	nd	0.1		1.1	1.0	113	50 - 150	
Diazinon	nd	0.1		1.0	1.0	101	50 - 150		Propoxur	nd	0.1		0.9	1.0	86	50 - 150	
Dichlorvos	nd	0.5		2.5	1.0	251	50 - 150	HB	Pyrethrins	nd	0.2		1.1	1.0	111	50 - 150	
Dimethoate	nd	0.1		0.8	1.0	84	50 - 150		Pyridaben	nd	0.1		1.1	1.0	110	50 - 150	
Ethoprophos	nd	0.1		1.5	1.0	154	50 - 150	ME	Spinosad A kps	nd	0.1		0.9	1.0	94	50 - 150	
Etofenprox	nd	0.1		1.1	1.0	111	50 - 150		Spinosad D kps	nd	0.1		0.8	1.0	82	50 - 150	
Etoxazole	nd	0.1		1.1	1.0	112	50 - 150		Spiromesifen	nd	0.1		1.3	1.0	127	50 - 150	
Fenoxycarb	nd	0.1		1.6	1.0	157	50 - 150	ME	Spirotetramat	nd	0.1		0.9	1.0	89	50 - 150	
Fenpyroximate	nd	0.1		1.3	1.0	126	50 - 150		Spiroxamine	nd	0.1		0.8	1.0	80	50 - 150	
Fipronil	nd	0.1		1.1	1.0	105	50 - 150		Tebuconazole	nd	0.1		1.0	1.0	99	50 - 150	
Flonicamid	nd	0.1		1.7	1.0	170	50 - 150	HB	Thiacloprid	nd	0.1		1.1	1.0	114	50 - 150	
Fludioxonil	nd	0.1		0.9	1.0	91	50 - 150		Thiamethoxam	nd	0.1		0.9	1.0	90	50 - 150	
Hexythiazox	nd	0.1		2.5	1.0	250	50 - 150	HB	Trifloxystrobin	nd	0.1		1.2	1.0	125	50 - 150	

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Residual Solvents Sample Analysis

Solvents Analysis Date: 7/6/2018
 Solvents Batch ID: RES_070618A

Method: EPA 5021A
 Unit: µg/g (ppm)

Pass 

Analyte	MDN-XMT-JZT	BFZ-DXW-WSW	RPD (%)	Limits	LOQ	Status	Notes
1,4-Dioxane	<LQ	<LQ	0.00	380.0	50.0	Pass	
2-Butanol	<LQ	<LQ	0.00	5000.0	50.0	Pass	
2-Ethoxyethanol	<LQ	<LQ	0.00	160.0	50.0	Pass	
Acetone	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Acetonitrile	<LQ	<LQ	0.00	410.0	50.0	Pass	
Benzene	<LQ	<LQ	0.00	2.0	2.0	Pass	
Butanes	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Cumene	<LQ	<LQ	0.00	70.0	50.0	Pass	
Cyclohexane	<LQ	<LQ	0.00	3880.0	50.0	Pass	
Ethyl Acetate	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Ethyl Ether	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Ethylene Glycol	<LQ	<LQ	0.00	620.0	250.0	Pass	
Ethylene Oxide	<LQ	<LQ	0.00	50.0	50.0	Pass	
Heptane	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Hexanes	<LQ	<LQ	0.00	290.0	50.0	Pass	
Isopropanol (2-Propanol)	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Isopropyl Acetate	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Methanol	<LQ	<LQ	0.00	3000.0	50.0	Pass	
Dichloromethane	<LQ	<LQ	0.00	600.0	50.0	Pass	
Pentanes	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Propane	<LQ	<LQ	0.00	5000.0	50.0	Pass	
Tetrahydrofuran	<LQ	<LQ	0.00	720.0	50.0	Pass	
Toluene	<LQ	<LQ	0.00	890.0	50.0	Pass	
Xylenes	<LQ	<LQ	0.00	2170.0	50.0	Pass	

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BJPS-MRBR

Quality Control Data Residual Solvents

Solvents QC Analysis Date: 7/6/2018
 Solvents QC Batch ID: RES_070618A

Method: EPA 5021A
 Unit: µg/g (ppm)

Laboratory Residual Solvent Quality Control Results

Method: EPA 5021A Units: µg/mL Batch ID: RES_070618A

Matrix Blank / LCS Results

Analyte	Blank Result	Blank Limit	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes
1,4-Dioxane	< LOQ	50		897	1000	90	70 - 130	
2-Butanol	< LOQ	50		873	1000	87	70 - 130	
2-Ethoxyethanol	< LOQ	50		908	1000	91	70 - 130	
Acetone	< LOQ	50		826	1000	83	70 - 130	
Acetonitrile	< LOQ	50		844	1000	84	70 - 130	
Benzene	< LOQ	2		16	20	78	70 - 130	
Butanes								
<i>Butane</i>	< LOQ	50		751	1000	75	70 - 130	
<i>Isobutane</i>	< LOQ	50		732	1000	73	70 - 130	
Cyclohexane	< LOQ	50		861	1000	86	70 - 130	
Ethyl acetate	< LOQ	50		843	1000	84	70 - 130	
Ethyl ether	< LOQ	50		838	1000	84	70 - 130	
Ethylbenzene	< LOQ	50		921	1000	92	70 - 130	
Ethylene glycol	< LOQ	250		1004	1000	100	70 - 130	
Ethylene oxide	< LOQ	50		816	1000	82	70 - 130	
Heptane	< LOQ	50		858	1000	86	70 - 130	
Hexanes								
<i>n-Hexane</i>	< LOQ	50		828	1000	83	70 - 130	
<i>2-Methylpentane</i>	< LOQ	50		830	1000	83	70 - 130	
<i>3-Methylpentane</i>	< LOQ	50		836	1000	84	70 - 130	
<i>2,2-Dimethylbutane</i>	< LOQ	50		794	1000	79	70 - 130	
<i>2,3-Dimethylbutane</i>	< LOQ	50		841	1000	84	70 - 130	
Isopropanol	< LOQ	50		868	1000	87	70 - 130	
Isopropyl acetate	< LOQ	50		865	1000	86	70 - 130	
Cumene	< LOQ	50		933	1000	93	70 - 130	
Methanol	< LOQ	50		870	1000	87	70 - 130	
Dichloromethane	< LOQ	50		859	1000	86	70 - 130	
Pentanes								
<i>Pentane</i>	< LOQ	50		790	1000	79	70 - 130	
<i>Isopentane</i>	< LOQ	50		769	1000	77	70 - 130	
<i>Neopentane</i>	< LOQ	50		753	1000	75	70 - 130	
Propane	< LOQ	50		695	1000	69	70 - 130	ME
Tetrahydrofuran	< LOQ	50		859	1000	86	70 - 130	
Toluene	< LOQ	50		903	1000	90	70 - 130	
Xylenes								
<i>m-Xylene</i>	< LOQ	50		955	1000	96	70 - 130	
<i>o/p-Xylene</i>	< LOQ	50		914	1000	91	70 - 130	

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Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
B	Analyte found in sample and associated blank
C	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
M	Manual integration
PS	Peaks split
HB	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation