

Emerald Evolution LLC

Independence, OR 97351
joel.espinosa@emeraldrevolutionllc.com
(858) 705-5706
Lic. #020-10028473711

Sample: 1710CH0011.0037

Strain: Strawberry Switchblade
Batch#: 1; Batch Size: 2330 - grams
Sample Received: 10/02/2017; Report Created: 10/11/2017; Expires: 10/11/2018
Sampling: Random; Environment: Room Temp

Strawberry Switchblade

Plant, Flower - Cured, Indoor
Harvest Process Lot: 092117; METRC Batch: 1A401030000A475000000454; METRC Sample: 1A401030000A475000000492



Pass

Pesticides

Moisture	Water Activity
8.4%	0.458
	0.65 Limit

Microbial Potential

Cannabinoids

245 HPLC1 20171010-1
10/10/2017

Pass

18.92%

Total THC* (Calculated
Decarboxylated Potential)

0.04%

Total CBD** (Calculated
Decarboxylated Potential)

22.25%

Total Cannabinoids Analyzed

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	0.2	19.93	199.3
Δ9-THC	0.2	1.43	14.3
THCV	0.2	<LOQ	<LOQ
CBDa	0.2	0.05	0.5
CBD	0.2	<LOQ	<LOQ
CBDV	0.2	<LOQ	<LOQ
CBN	0.2	<LOQ	<LOQ
CBGa	0.2	0.70	7.0
CBG	0.2	0.10	1.0
CBC	0.2	0.04	0.4
Total		22.25	222.5

*Total THC = THCa * 0.877 + d9-THC. **Total CBD = CBDa * 0.877 + CBD.
Report Compliant with OAR Rule 333-008-1190.
Based on dry weight; LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected

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Pesticides

310LCQQQ1 20171005-1
10/06/2017

Pass

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB			PPB	PPB	PPB	
Abamectin	300	500	<LOQ	Pass	Imazalil	300	200	<LOQ	Pass
Acephate	200	400	<LOQ	Pass	Imidacloprid	100	400	<LOQ	Pass
Acequinocyl	900	2000	<LOQ	Pass	Kresoxim Methyl	100	400	<LOQ	Pass
Acetamiprid	200	200	<LOQ	Pass	Malathion	200	200	<LOQ	Pass
Aldicarb	300	400	<LOQ	Pass	Metalaxyl	100	200	<LOQ	Pass
Azoxystrobin	200	200	<LOQ	Pass	Methiocarb	200	200	<LOQ	Pass
Bifenazate	200	200	<LOQ	Pass	Methomyl	200	400	<LOQ	Pass
Bifenthrin	200	200	<LOQ	Pass	Methyl Parathion	200	200	<LOQ	Pass
Boscalid	400	400	<LOQ	Pass	MGK-264	100	200	<LOQ	Pass
Carbaryl	200	200	<LOQ	Pass	Myclobutanil	200	200	<LOQ	Pass
Carbofuran	200	200	<LOQ	Pass	Naled	500	500	<LOQ	Pass
Chlorantraniliprole	200	200	<LOQ	Pass	Oxamyl	200	1000	<LOQ	Pass
Chlorfenapyr	500	1000	<LOQ	Pass	Paclbutrazol	100	400	<LOQ	Pass
Chlorpyrifos	200	200	<LOQ	Pass	Permethrins	200	200	<LOQ	Pass
Clofentezine	200	200	<LOQ	Pass	Phosmet	300	200	<LOQ	Pass
Cyfluthrin	1000	1000	<LOQ	Pass	Piperonyl Butoxide	200	2000	<LOQ	Pass
Cypermethrin	1000	1000	<LOQ	Pass	Prallethrin	200	200	<LOQ	Pass
Daminozide	200	1000	<LOQ	Pass	Propiconazole	400	400	<LOQ	Pass
Diazinon	200	200	<LOQ	Pass	Propoxur	200	200	<LOQ	Pass
Dichlorvos	800	1000	<LOQ	Pass	Pyrethrins	1000	1000	<LOQ	Pass
Dimethoate	200	200	<LOQ	Pass	Pyridaben	100	200	<LOQ	Pass
Ethoprophos	100	200	<LOQ	Pass	Spinosad	100	200	<LOQ	Pass
Etofenprox	200	400	<LOQ	Pass	Spiromesifen	100	200	<LOQ	Pass
Etoxazole	100	200	<LOQ	Pass	Spirotetramat	200	200	<LOQ	Pass
Fenoxycarb	200	200	<LOQ	Pass	Spiroxamine	100	400	<LOQ	Pass
Fenpyroximate	200	400	<LOQ	Pass	Tebuconazole	200	400	<LOQ	Pass
Fipronil	100	400	<LOQ	Pass	Thiacloprid	200	200	<LOQ	Pass
Flonicamid	200	1000	<LOQ	Pass	Thiamethoxam	200	200	<LOQ	Pass
Fludioxonil	400	400	<LOQ	Pass	Trifloxystrobin	200	200	<LOQ	Pass
Hexythiazox	500	1000	<LOQ	Pass					

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057

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Terpenes


118 GCFID1 20171003-2
10/03/2017


Analyte	Mass %	Mass mg/g	LOQ %	
β-Myrcene	0.74	7.4	0.03	<div style="width: 100%; height: 10px; background-color: #008000;"></div>
α-Pinene	0.44	4.4	0.03	<div style="width: 80%; height: 10px; background-color: #008000;"></div>
β-Caryophyllene	0.17	1.7	0.03	<div style="width: 30%; height: 10px; background-color: #008000;"></div>
β-Pinene	0.14	1.4	0.03	<div style="width: 25%; height: 10px; background-color: #008000;"></div>
α-Humulene	0.12	1.2	0.03	<div style="width: 20%; height: 10px; background-color: #008000;"></div>
δ-Limonene	0.11	1.1	0.03	<div style="width: 18%; height: 10px; background-color: #008000;"></div>
p-Isopropyltoluene	0.10	1.0	0.03	<div style="width: 15%; height: 10px; background-color: #008000;"></div>
Linalool	0.09	0.9	0.03	<div style="width: 12%; height: 10px; background-color: #008000;"></div>
Nerolidol	0.08	0.8	0.03	<div style="width: 10%; height: 10px; background-color: #008000;"></div>
Guaiol	0.06	0.6	0.03	<div style="width: 8%; height: 10px; background-color: #008000;"></div>
α-Terpinene	<LOQ	<LOQ	0.03	
Camphene	<LOQ	<LOQ	0.03	
δ-3-Carene	<LOQ	<LOQ	0.03	
γ-Terpinene	<LOQ	<LOQ	0.03	
Geraniol	<LOQ	<LOQ	0.03	
Isopulegol	<LOQ	<LOQ	0.03	
Ocimene	<LOQ	<LOQ	0.03	
(-)-α-Bisabolol	<LOQ	<LOQ	0.03	
Terpinolene	<LOQ	<LOQ	0.03	


Primary Aromas


2.05%
Total Terpenes


Hops


Pine


Cinnamon


Orange


Herbal

Method: GC-FID; based on dry weight; LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected

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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
245 HPLC1 20171010-1	PMB10021701F-RX	Cannabinoids	Blank

QC Notes

None

Compounds	Blank Result	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0	0.05	<LOQ	-
Δ9-THC	0	0.05	<LOQ	-
CBDa	0	0.05	<LOQ	-
CBD	0	0.05	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
245 HPLC1 20171010-1	PLCS10021701F-RX	Cannabinoids	Lab Control Sample

QC Notes

None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	17.83	18.69	95.4	70 - 130	-
Δ9-THC	2.18	1.98	110.1	70 - 130	-
CBDa	0.45	0.41	109.76	70 - 130	-
CBD	0.08	0.08	100	57 - 143	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
245 HPLC1 20171010-1	PMS10021701F-RX	Cannabinoids	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.06	5.97	<20	198	70 - 130	Above Limit Range
Δ9-THC	0.06	0	<20	140	70 - 130	Above Limit Range
CBDa	0.06	<LOQ	<LOQ	159	70 - 130	Above Limit Range
CBD	0.06	<LOQ	<LOQ	150	70 - 130	Above Limit Range



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
183 GCQQQ1 20171004-1	MRMB10021701	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Chlorfenapyr	500	<LOQ	-
Cyfluthrin	1000	<LOQ	-
Cypermethrin	1000	<LOQ	-
Fipronil	40	<LOQ	-
Fludioxonil	40	<LOQ	-
MGK-264	200	<LOQ	-
Methyl Parathion	200	<LOQ	-



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Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
310 LCQQQ1 20171005-1	MRMB10021701 LC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB
Acephate	200	<LOQ
Acequinocyl	900	<LOQ
Acetamiprid	200	<LOQ
Aldicarb	300	<LOQ
Abamectin	300	<LOQ
Azoxystrobin	200	<LOQ
Bifenazate	200	<LOQ
Bifenthrin	200	<LOQ
Boscalid	400	<LOQ
Carbaryl	200	<LOQ
Carbofuran	200	<LOQ
Chlorantraniliprole	200	<LOQ
Chlorpyrifos	200	<LOQ
Clofentezine	200	<LOQ
Daminozide	200	<LOQ
Diazinon	200	<LOQ
Dichlorvos	800	<LOQ
Dimethoate	200	<LOQ
Ethoprophos	100	<LOQ
Etofenprox	200	<LOQ
Etoxazole	100	<LOQ
Fenoxycarb	200	<LOQ
Fenprothiopyrate	200	<LOQ
Flonicamid	100	<LOQ
Hexythiazox	500	<LOQ
Imazalil	300	<LOQ
Imidacloprid	100	<LOQ
Kresoxim Methyl	100	<LOQ
Malathion	200	<LOQ
Metalaxyl	100	<LOQ



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Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
310 LCQQQ1 20171005-1	MRMB10021701 LC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB
Methiocarb	200	<LOQ
Methomyl	200	<LOQ
Myclobutanil	200	<LOQ
Naled	500	<LOQ
Oxamyl	200	<LOQ
Paclbutrazol	100	<LOQ
Permethrin	200	<LOQ
Phosmet	300	<LOQ
Piperonyl Butoxide	200	<LOQ
Prallethrin	200	<LOQ
Propiconazole	400	<LOQ
Propoxur	200	<LOQ
Pyrethrins	1000	<LOQ
Pyridaben	100	<LOQ
Spinosad	100	<LOQ
Spiromesifen	100	<LOQ
Spirotetramat	200	<LOQ
Spiroxamine	100	<LOQ
Tebuconazole	200	<LOQ
Thiacloprid	200	<LOQ
Thiamethoxam	200	<LOQ
Trifloxystrobin	200	<LOQ



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
183 GCQQQ1 20171004-1	MRLCS10021701	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Chlorfenapyr	104	69 - 132	-
Cyfluthrin	106	68 - 136	-
Cypermethrin	106	67 - 134	-
Fipronil	112.000	67 - 136	-
Fludioxonil	110.000	69 - 139	-
MGK-264	106	65 - 145	-
Parathion Methyl	115.000	66 - 131	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
310 LCQQQ1 20171005-1	MRLCS10021701 LC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Acephate	98.5	56 - 149	-
Acequinocyl	89.35	30 - 142	-
Acetamiprid	98.27	56 - 149	-
Aldicarb	97.48	53 - 150	-
Abamectin	83.73	30 - 140	-
Azoxystrobin	102.25	55 - 138	-
Bifenazate	98.35	53 - 137	-
Bifenthrin	123.97	30 - 150	-
Boscalid	97	55 - 142	-
Carbaryl	102.85	56 - 150	-
Carbofuran	102.16	57 - 142	-
Chlorantraniliprole	100.72	54 - 141	-
Chlorpyrifos	106.64	34 - 150	-
Clofentezine	106.71	44 - 150	-
Daminozide	86.17	30 - 150	-
Diazinon	92.92	55 - 134	-
Dichlorvos	97.77	49 - 149	-
Dimethoate	95.72	56 - 149	-
Ethoprophos	93.4	52 - 143	-
Etofenprox	112.44	46 - 140	-
Etoxazole	85.71	50 - 134	-
Fenoxycarb	99.7	53 - 139	-
Fenproximate	84.97	45 - 127	-
Flonicamid	101.81	55 - 145	-
Hexythiazox	104.55	39 - 141	-
Imazalil	67.86	40 - 149	-
Imidacloprid	104.45	54 - 150	-
Kresoxim Methyl	107.96	57 - 139	-
Malathion	100.12	51 - 147	-
Metalaxyl	99.93	58 - 142	-



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310 LCQQQ1 20171005-1	MRLCS10021701 LC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Methiocarb	103.67	50 - 150	-
Methomyl	103.28	55 - 150	-
Myclobutanil	97.08	54 - 145	-
Naled	98.7	49 - 146	-
Oxamyl	101.92	56 - 147	-
Paclobutrazol	93.2	56 - 139	-
Permethrin	122.51	30 - 138	-
Phosmet	105.58	57 - 146	-
Piperonyl Butoxide	92.46	48 - 146	-
Prallethrin	105.19	53 - 146	-
Propiconazole	89.16	49 - 129	-
Propoxur	101.47	56 - 150	-
Pyrethrins	100.06	30 - 150	-
Pyridaben	88.04	50 - 132	-
Spinosad	48.24	30 - 150	-
Spiromesifen	85.73	52 - 136	-
Spirotetramat	90.58	46 - 150	-
Spiroxamine	54.45	30 - 150	-
Tebuconazole	90.19	48 - 136	-
Thiacloprid	100.21	47 - 150	-
Thiamethoxam	101.27	57 - 147	-
Trifloxystrobin	104.55	46 - 147	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
183 GCQQQ1 20171004-1	MRMS10021701	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Chlorfenapyr	4.96	20	<20	106.18	62 - 130	
Cyfluthrin	6.89	20	<20	99.76	63 - 128	
Cypermethrin	9.86	20	<20	98.48	58 - 126	
Fipronil	1.67	20	<20	111.66	62 - 134	
Fludioxonil	1.21	20	<20	114.66	62 - 139	
MGK-264	2.53	20	<20	103.64	56 - 150	
Methyl Parathion	1.43	20	<20	107.35	63 - 135	



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310 LCQQQ1 20171005-1	MRMS10021701 LC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Acephate	7.29	30	<30	113.35	52 - 150	-
Acequinocyl	29.83	30	<30	67.98	30 - 147	-
Acetamiprid	6.73	30	<30	98.28	47 - 148	-
Aldicarb	1.18	30	<30	101.38	48 - 145	-
Abamectin	15.36	30	<30	99.95	41 - 150	-
Azoxystrobin	4.31	30	<30	107.46	50 - 150	-
Bifenazate	3.22	30	<30	113.32	50 - 150	-
Bifenthrin	11.36	30	<30	129.74	46 - 150	-
Boscalid	6.86	30	<30	109.07	50 - 150	-
Carbaryl	3.84	30	<30	105.53	57 - 150	-
Carbofuran	2.72	30	<30	106	51 - 150	-
Chlorantraniliprole	8.22	30	<30	111.59	52 - 150	-
Chlorpyrifos	8.89	30	<30	139.14	30 - 150	-
Clofentezine	1.82	30	<30	133.58	53 - 146	-
Daminozide	3.51	30	<30	106.19	30 - 150	-
Diazinon	6.96	30	<30	103.53	41 - 145	-
Dichlorvos	1.05	30	<30	98.87	54 - 141	-
Dimethoate	4.89	30	<30	98.34	49 - 149	-
Ethoprophos	7.81	30	<30	99.44	47 - 146	-
Etofenprox	0.71	30	<30	125.05	38 - 150	-
Etoxazole	6.44	30	<30	79.25	34 - 150	-
Fenoxycarb	4.94	30	<30	118.25	54 - 150	-
Fenpyroximate	12.75	30	<30	77.79	34 - 150	-
Flonicamid	2.37	30	<30	100.91	45 - 143	-
Hexythiazox	7.55	30	<30	131.09	30 - 150	-
Imazalil	9.05	30	<30	74.02	30 - 147	-
Imidacloprid	2.71	30	<30	95.26	43 - 148	-
Kresoxim Methyl	6.28	30	<30	96.07	56 - 144	-
Malathion	1.97	30	<30	119.91	55 - 150	-
Metalaxyl	5.95	30	<30	95.68	50 - 150	-



Emerald Evolution LLC

Sample: 1710CH0011.0037

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Lic. #020-10028473711

Strain: Strawberry Switchblade
Batch#: 1; Batch Size: 2330 - grams
Sample Received: 10/02/2017; Report Created: 10/11/2017; Expires: 10/11/2018
Sampling: Random; Environment: Room Temp

Strawberry Switchblade

Plant, Flower - Cured, Indoor
Harvest Process Lot: 092117; METRC Batch: 1A401030000A47500000454; METRC Sample: 1A401030000A47500000492



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
310 LCQQQ1 20171005-1	MRMS10021701 LC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Methiocarb	4	30	<30	120.33	50 - 150	-
Methomyl	10.33	30	<30	101.52	42 - 150	-
Myclobutanil	4.72	30	<30	113.74	43 - 150	-
Naled	2.27	30	<30	121.39	46 - 150	-
Oxamyl	2.83	30	<30	101.02	41 - 150	-
Paclobutrazol	6.36	30	<30	107.85	47 - 150	-
Permethrin	0.94	30	<30	182.88	37 - 150	Above Limit Range
Phosmet	0.84	30	<30	129.75	35 - 150	-
Piperonyl Butoxide	5.64	30	<30	93.22	30 - 149	-
Prallethrin	3.13	30	<30	123.8	46 - 150	-
Propiconazole	8.77	30	<30	87.66	40 - 150	-
Propoxur	3.34	30	<30	103.45	53 - 150	-
Pyrethrins	13.05	30	<30	77.4	30 - 150	-
Pyridaben	4.68	30	<30	95.64	41 - 150	-
Spinosad	21.2	30	<30	56	30 - 150	-
Spiromesifen	5.94	30	<30	89.03	43 - 150	-
Spirotetramat	5.91	30	<30	93.58	48 - 150	-
Spiroxamine	13.06	30	<30	64.21	30 - 143	-
Tebuconazole	5.68	30	<30	103.07	45 - 150	-
Thiacloprid	4.5	30	<30	103.08	50 - 147	-
Thiamethoxam	6.2	30	<30	94.52	40 - 147	-
Trifloxystrobin	6.13	30	<30	113.84	50 - 150	-

