



Hawaiian Spirit Terpsolate 4000.3

Sample ID: G0B0045-05

Matrix: Hemp Extracts &

Test ID: 5005153

Source ID:

Date Sampled: 01/31/20

Date Accepted: 01/31/20

Sovereign Fields, LLC

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : 96.69 %

Pesticides : PASS

Total Terpenes : 2.454 % PASS



Eric Wendt
Chief Science Officer - 2/6/2020

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Hawaiian Spirit Terpsolate 4000.3

Sample ID: G0B0045-05

Matrix: Hemp Extracts &

Test ID: 5005153

Source ID:

Date Sampled: 01/31/20

Date Accepted: 01/31/20

Sovereign Fields, LLC

Potency Analysis

Date/Time Extracted: 02/04/20 12:09

Analysis Method/SOP: 215

Batch Identification: 2006031

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	<p>Legend: CBD 96.7 Total: 96.7</p>
Total CBD	0.0431	96.69	966.9	
THCA	0.0607	< LOQ	< LOQ	
delta 9-THC	0.1577	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
Exo-THC	0.0217	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0324	96.69	966.9	
CBDA	0.0431	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	< LOQ	< LOQ	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.1864	< LOQ	< LOQ	
Total Cannabinoids		96.69	966.9	

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



**ISO 17025
ACCREDITED
LABORATORY**

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Chief Science Officer - 2/6/2020

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Hawaiian Spirit Terpsolate 4000.3

Sample ID: G0B0045-05

Matrix: Hemp Extracts &

Test ID: 5005153

Source ID:

Date Sampled: 01/31/20

Date Accepted: 01/31/20

Sovereign Fields, LLC

Terpene Analysis

Date/Time Extracted: 02/04/20 12:09

Analysis Method/SOP: 204

Monoterpenes	%	mg/g	Monoterpenes	%	mg/g
Camphene	< LOQ	< LOQ	Camphor	< LOQ	< LOQ
3-Carene	< LOQ	< LOQ	alpha-Cedrene	< LOQ	< LOQ
Cedrol	< LOQ	< LOQ	Endo-fenchyl alcohol	< LOQ	< LOQ
Eucalyptol	< LOQ	< LOQ	Fenchone	< LOQ	< LOQ
Geraniol	< LOQ	< LOQ	Geranyl acetate	< LOQ	< LOQ
Hexahydrothymol	< LOQ	< LOQ	Isoborneol	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ	Limonene	0.1025	1.025
Linalool	0.06800	0.68	p-Mentha-1,5-diene	< LOQ	< LOQ
beta-Myrcene	1.965	19.65	alpha-Pinene	0.06169	0.6169
beta-Pinene	0.02330	0.233	Pulegone	< LOQ	< LOQ
Sabinene	< LOQ	< LOQ	Sabinene hydrate	< LOQ	< LOQ
gamma-Terpinene	< LOQ	< LOQ	alpha-Terpinene	< LOQ	< LOQ
Terpineol	< LOQ	< LOQ	Terpinolene	< LOQ	< LOQ
B Y-Terpineol	< LOQ	< LOQ	Nerol	< LOQ	< LOQ
A-Terpineol	< LOQ	< LOQ	Borneol	< LOQ	< LOQ
Ocimene isomer II	0.1423	1.423	Ocimene isomer I	< LOQ	< LOQ
Sesquiterpenes	%	mg/g	Sesquiterpenes	%	mg/g
alpha-Bisabolol	< LOQ	< LOQ	beta-Caryophyllene	0.09200	0.92
Caryophyllene Oxide	< LOQ	< LOQ	Guaiol	< LOQ	< LOQ
alpha-Humulene	< LOQ	< LOQ	trans-Nerolidol	< LOQ	< LOQ
Valencene	< LOQ	< LOQ	cis-Nerolidol	< LOQ	< LOQ
Total Terpenes	2.454	24.54			

<LOQ - Results below the Limit of Quantitation - Terpenes profile/analysis are not accredited to ORELAP TNI 2009 Quality Standards.



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Test ID: 5005153

Source ID:

Date Sampled: 01/31/20

Date Accepted: 01/31/20

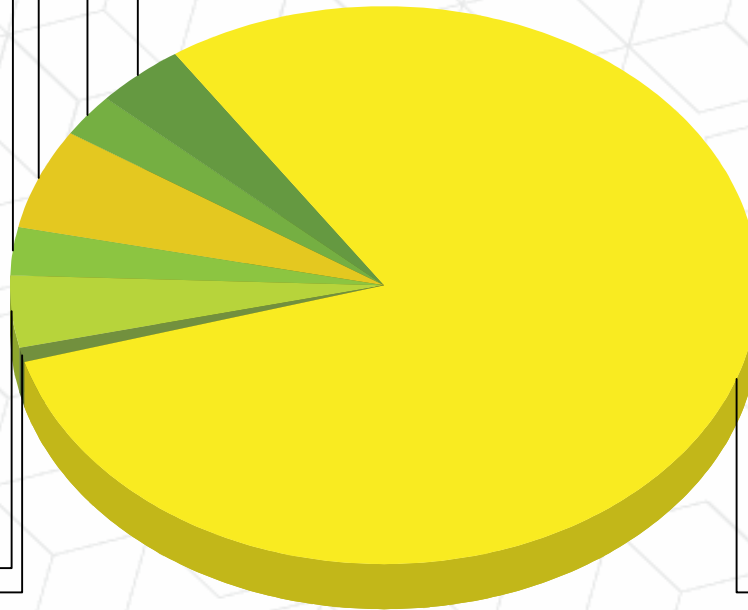
Sovereign Fields, LLC

Terpene Profile

Ocimene isomer II
Linalool
beta-Caryophyllene
alpha-Pinene

Limonene
beta-Pinene

beta-Myrcene



Percentage of Total Terpenes Identified



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Test ID: 5005153

Source ID:

Date Sampled: 01/31/20

Date Accepted: 01/31/20

Sovereign Fields, LLC

Pesticide Analysis in ppm

Date/Time Extracted: 02/04/20 12:57
Analysis Method/SOP: 202

Analyte	Result	Action Level	LOD	LOQ	Units	Analyte	Result	Action Level	LOD	LOQ	Units
Abamectin	< LOQ	0.5		0.4	ppm	Acephate	< LOQ	0.4		0.06	ppm
Acequinocyl	< LOQ	2		0.4	ppm	Acetamiprid	< LOQ	0.2		0.06	ppm
Aldicarb	< LOQ	0.4		0.06	ppm	Azoxystrobin	< LOQ	0.2		0.06	ppm
Bifenazate	< LOQ	0.2		0.06	ppm	Bifenthrin	< LOQ	0.2		0.06	ppm
Boscalid	< LOQ	0.4		0.06	ppm	Carbaryl	< LOQ	0.2		0.06	ppm
Carbofuran	< LOQ	0.2		0.06	ppm	Chlorantraniliprole	< LOQ	0.2		0.06	ppm
Chlorfenapyr	< LOQ	1		0.4	ppm	Chlorpyrifos	< LOQ	0.2		0.06	ppm
Clofentezine	< LOQ	0.2		0.06	ppm	Cyfluthrin	< LOQ	1		0.06	ppm
Cypermethrin	< LOQ	1		0.4	ppm	Daminozide	< LOQ	1		0.06	ppm
DDVP (Dichlorvos)	< LOQ	1		0.06	ppm	Diazinon	< LOQ	0.2		0.06	ppm
Dimethoate	< LOQ	0.2		0.06	ppm	Ethoprophos	< LOQ	0.2		0.06	ppm
Etofenprox	< LOQ	0.4		0.06	ppm	Etoxazole	< LOQ	0.2		0.06	ppm
Fenoxycarb	< LOQ	0.2		0.06	ppm	Fenpyroximate	< LOQ	0.4		0.06	ppm
Fipronil	< LOQ	0.4		0.1	ppm	Flonicamid	< LOQ	1		0.06	ppm
Fludioxonil	< LOQ	0.4		0.06	ppm	Fludioxonil	< LOQ	0.4		0.06	ppm
Hexythiazox	< LOQ	1		0.1	ppm	Imazalil	< LOQ	0.2		0.06	ppm
Imidacloprid	< LOQ	0.4		0.06	ppm	Kresoxim-methyl	< LOQ	0.4		0.1	ppm
Malathion	< LOQ	0.2		0.06	ppm	Malathion	< LOQ	0.2		0.06	ppm
Metaxyl	< LOQ	0.2		0.06	ppm	Methiocarb	< LOQ	0.2		0.06	ppm
Methomyl	< LOQ	0.4		0.06	ppm	Methyl parathion	< LOQ	0.2		0.06	ppm
MGK-264	< LOQ	0.2		0.06	ppm	Myclobutanil	< LOQ	0.2		0.06	ppm
Naled	< LOQ	0.5		0.06	ppm	Oxamyl	< LOQ	1		0.06	ppm
Paclobutrazol	< LOQ	0.4		0.06	ppm	Permethrins	< LOQ	0.2		0.06	ppm
Phosmet	< LOQ	0.2		0.06	ppm	Piperonyl butoxide	< LOQ	2		0.9	ppm
Prallethrin	< LOQ	0.2		0.06	ppm	Propiconazole	< LOQ	0.4		0.06	ppm
Propoxur	< LOQ	0.2		0.06	ppm	Pyrethrins	< LOQ	1		0.06	ppm
Pyridaben	< LOQ	0.2		0.06	ppm	Spinosad	< LOQ	0.2		0.06	ppm
Spiromesifen	< LOQ	0.2		0.06	ppm	Spirotetramat	< LOQ	0.2		0.06	ppm
Spiroxamine	< LOQ	0.4		0.06	ppm	Tebuconazole	< LOQ	0.4		0.06	ppm
Thiacloprid	< LOQ	0.2		0.06	ppm	Thiamethoxam	< LOQ	0.2		0.06	ppm
Trifloxystrobin	< LOQ	0.2		0.06	ppm						

ND - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Quality Control Potency

Batch: 2006031 - 215-Concentrates

Blank(2006031-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0607	%		02/04/20 12:09	02/04/20 18:52
delta 9-THC	< LOQ	0.1577	%		02/04/20 12:09	02/04/20 18:52
delta 8-THC	< LOQ	0.0934	%		02/04/20 12:09	02/04/20 18:52
Exo-THC	< LOQ	0.0217	%		02/04/20 12:09	02/04/20 18:52
THCV	< LOQ	0.1052	%		02/04/20 12:09	02/04/20 18:52
THCVA	< LOQ	0.0392	%		02/04/20 12:09	02/04/20 18:52
CBD	< LOQ	0.0324	%		02/04/20 12:09	02/04/20 18:52
CBDA	< LOQ	0.0431	%		02/04/20 12:09	02/04/20 18:52
CBDV	< LOQ	0.1040	%		02/04/20 12:09	02/04/20 18:52
CBDVA	< LOQ	0.0341	%		02/04/20 12:09	02/04/20 18:52
CBN	< LOQ	0.0622	%		02/04/20 12:09	02/04/20 18:52
CBG	< LOQ	0.0164	%		02/04/20 12:09	02/04/20 18:52
CBGA	< LOQ	0.0164	%		02/04/20 12:09	02/04/20 18:52
CBC	< LOQ	0.1864	%		02/04/20 12:09	02/04/20 18:52

Reference(2006031-SRM1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	100	0.0308	%	80-120	02/04/20 12:09	02/04/20 19:15
delta 9-THC	105	0.0800	%	80-120	02/04/20 12:09	02/04/20 19:15
CBD	102	0.0164	%	80-120	02/04/20 12:09	02/04/20 19:15
CBDA	100	0.0219	%	80-120	02/04/20 12:09	02/04/20 19:15

Pesticide Analysis

Batch: 2006032 - 202

Blank(2006032-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.4	ppm		02/04/20 12:57	02/05/20 18:49
DDVP (Dichlorvos)	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Acephate	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Acequinocyl	< LOQ	0.4	ppm		02/04/20 12:57	02/05/20 18:49
Acetamiprid	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Aldicarb	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Azoxystrobin	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Bifenazate	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Bifenthrin	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Boscalid	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Carbaryl	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Carbofuran	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Chlorantraniliprole	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49



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Quality Control Pesticide Analysis (Continued)

Batch: 2006032 - 202 (Continued)

Blank(2006032-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Chlorfenapyr	< LOQ	0.4	ppm		02/04/20 12:57	02/04/20 18:43
Chlorpyrifos	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Clofentezine	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Daminozide	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Cyfluthrin	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Diazinon	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Cypermethrin	< LOQ	0.4	ppm		02/04/20 12:57	02/04/20 18:43
Dimethoate	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Ethoprophos	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Etofenprox	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Etoxazole	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Fenoxycarb	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Fenpyroximate	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Fonicamid	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Fludioxonil	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Hexythiazox	< LOQ	0.1	ppm		02/04/20 12:57	02/05/20 18:49
Imazalil	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Fipronil	< LOQ	0.1	ppm		02/04/20 12:57	02/04/20 18:43
Imidacloprid	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Malathion	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Fludioxonil	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Metalaxyl	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Methiocarb	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Methomyl	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Myclobutanil	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Kresoxim-methyl	< LOQ	0.1	ppm		02/04/20 12:57	02/04/20 18:43
Naled	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Malathion	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Oxamyl	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Paclobutrazol	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Methyl parathion	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
MGK-264	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Phosmet	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Piperonyl butoxide	< LOQ	0.9	ppm		02/04/20 12:57	02/05/20 18:49
Prallethrin	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Propoxur	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Permethrins	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Pyrethrins	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49



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Quality Control Pesticide Analysis (Continued)

Batch: 2006032 - 202 (Continued)

Blank(2006032-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Pyridaben	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Propiconazole	< LOQ	0.06	ppm		02/04/20 12:57	02/04/20 18:43
Spinosad	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Spiromesifen	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Spirotetramat	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Spiroxamine	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Tebuconazole	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Thiacloprid	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Thiamethoxam	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49
Trifloxystrobin	< LOQ	0.06	ppm		02/04/20 12:57	02/05/20 18:49

LCS(2006032-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	61.0	0.4	ppm	70-130	02/04/20 12:57	02/05/20 19:12
DDVP (Dichlorvos)	105	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Acephate	115	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Acequinocyl	53.8	0.4	ppm	5.57-33.8	02/04/20 12:57	02/05/20 19:12
Acetamiprid	113	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Aldicarb	103	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Azoxystrobin	108	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Bifenazate	86.6	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Bifenthrin	126	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Boscalid	79.2	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Carbaryl	111	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Carbofuran	110	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Chlorantraniliprole	96.2	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Chlorfenapyr	90.7	0.4	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Chlorpyrifos	94.1	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Clofentezine	39.7	0.06	ppm	14.4-62.3	02/04/20 12:57	02/05/20 19:12
Daminozide	67.8	0.06	ppm	0-100	02/04/20 12:57	02/05/20 19:12
Cyfluthrin	95.6	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Diazinon	101	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Cypermethrin	90.5	0.4	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Dimethoate	105	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Ethoprophos	105	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Etofenprox	103	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Etoxazole	105	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Fenoxycarb	106	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Fenpyroximate	93.9	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12



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Quality Control Pesticide Analysis (Continued)

Batch: 2006032 - 202 (Continued)

LCS(2006032-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Fonicamid	115	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Fludioxonil	103	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Hexythiazox	92.6	0.1	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Imazalil	80.2	0.06	ppm	57.9-96.4	02/04/20 12:57	02/05/20 19:12
Fipronil	106	0.1	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Imidacloprid	106	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Malathion	106	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Fludioxonil	92.1	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Metalaxyl	116	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Methiocarb	112	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Methomyl	109	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Myclobutanil	108	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Kresoxim-methyl	105	0.1	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Naled	135	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Malathion	112	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Oxamyl	119	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Paclobutrazol	111	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Methyl parathion	86.6	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
MGK-264	105	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Phosmet	108	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Piperonyl butoxide	62.3	0.9	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Prallethrin	110	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Propoxur	108	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Permethrins	107	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Pyrethrins	50.6	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Pyridaben	105	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Propiconazole	101	0.06	ppm	70-130	02/04/20 12:57	02/04/20 19:05
Spinosad	82.8	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Spiromesifen	100	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Spirotetramat	113	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Spiroxamine	107	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Tebuconazole	106	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Thiacloprid	113	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Thiamethoxam	109	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12
Trifloxystrobin	110	0.06	ppm	70-130	02/04/20 12:57	02/05/20 19:12

Terpene Analysis

Batch: 2006031 - 215-Concentrates



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Eric Wendt
Chief Science Officer - 2/6/2020

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Quality Control Terpene Analysis (Continued)

Batch: 2006031 - 215-Concentrates (Continued)

Blank(2006031-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
alpha-Bisabolol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Camphene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Camphor	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
3-Carene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
beta-Caryophyllene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Caryophyllene Oxide	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
alpha-Cedrene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Cedrol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Endo-fenchyl alcohol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Eucalyptol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Fenchone	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Geraniol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Geranyl acetate	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Guaiol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Hexahydrothymol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
alpha-Humulene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Isoborneol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Isopulegol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Limonene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Linalool	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
p-Mentha-1,5-diene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
beta-Myrcene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
trans-Nerolidol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
alpha-Pinene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
beta-Pinene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Pulegone	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Sabinene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Sabinene hydrate	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
gamma-Terpinene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
alpha-Terpinene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Terpineol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Terpinolene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Valencene	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
B Y-Terpineol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Nerol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
A-Terpineol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
cis-Nerolidol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Borneol	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19



Eric Wendt
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Quality Control Terpene Analysis (Continued)

Batch: 2006031 - 215-Concentrates (Continued)

Blank(2006031-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ocimene isomer II	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19
Ocimene isomer I	< LOQ	4.000E-4	%		02/04/20 12:09	02/05/20 07:19

Reference(2006031-SRM2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
beta-Caryophyllene	87.3	2.030E-4	%	70-130	02/04/20 12:09	02/05/20 08:03
alpha-Humulene	98.5	2.030E-4	%	70-130	02/04/20 12:09	02/05/20 08:03
Limonene	101	2.030E-4	%	70-130	02/04/20 12:09	02/05/20 08:03
beta-Myrcene	99.7	2.030E-4	%	70-130	02/04/20 12:09	02/05/20 08:03
Terpinolene	102	2.030E-4	%	70-130	02/04/20 12:09	02/05/20 08:03



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