



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 22-014012/D006.R000
Report Date: 11/23/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/15/22 12:43

Customer: IHC LLC
Product identity: Sour Hawaiian
Client/Metric ID: .
Laboratory ID: 22-014012-0006

Summary

Pesticides:

All analytes passing and less than LOQ.

Metals:

Analyte	Result	Units	Limit	Status	Analyte	Result	Units	Limit	Status
Lead	0.108	mg/kg	0.500	pass	Arsenic	0.0653	mg/kg	0.200	pass
Cadmium	0.0449	mg/kg	0.200	pass					



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Received: 11/15/22 12:43

Customer: IHC LLC
825 NW 16th Ave
Portland Oregon 97209
United States of America (USA)

Product identity: Sour Hawaiian
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-014012-0006
Evidence of Cooling: No
Temp: 9.6
Relinquished by: hinton



Sample Results

Pesticides		Method: AOAC 2007.01 & EN 15662 (mod) ^b				Units mg/kg		Batch 2209922		Analyze 11/18/22 07:35 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes		
Abamectin [¥]	< LOQ	0.50	0.250	pass		Acephate [¥]	< LOQ	0.40	0.200	pass			
Acequinocyl [¥]	< LOQ	2.0	1.00	pass		Acetamiprid [¥]	< LOQ	0.20	0.100	pass			
Aldicarb [¥]	< LOQ	0.40	0.200	pass		Azoxystrobin [¥]	< LOQ	0.20	0.100	pass			
Bifenazate [¥]	< LOQ	0.20	0.100	pass		Bifenthrin [¥]	< LOQ	0.20	0.100	pass			
Boscalid [¥]	< LOQ	0.40	0.200	pass		Carbaryl [¥]	< LOQ	0.20	0.100	pass			
Carbofuran [¥]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [¥]	< LOQ	0.20	0.100	pass			
Chlorfenapyr [¥]	< LOQ	1.0	0.500	pass		Chlorpyrifos [¥]	< LOQ	0.20	0.100	pass			
Clofentezine [¥]	< LOQ	0.20	0.100	pass		Cyfluthrin [¥]	< LOQ	1.0	0.500	pass			
Cypermethrin [¥]	< LOQ	1.0	0.500	pass		Daminozide [¥]	< LOQ	1.0	0.500	pass			
Diazinon [¥]	< LOQ	0.20	0.100	pass		Dichlorvos [¥]	< LOQ	1.0	0.500	pass			
Dimethoate [¥]	< LOQ	0.20	0.100	pass		Ethoprophos [¥]	< LOQ	0.20	0.100	pass			
Etofenprox [¥]	< LOQ	0.40	0.200	pass		Etoxazole [¥]	< LOQ	0.20	0.100	pass			
Fenoxycarb [¥]	< LOQ	0.20	0.100	pass		Fenpyroximate [¥]	< LOQ	0.40	0.200	pass			
Fipronil [¥]	< LOQ	0.40	0.200	pass		Flonicamid [¥]	< LOQ	1.0	0.400	pass			
Fludioxonil [¥]	< LOQ	0.40	0.200	pass		Hexythiazox [¥]	< LOQ	1.0	0.400	pass			
Imazalil [¥]	< LOQ	0.20	0.100	pass		Imidacloprid [¥]	< LOQ	0.40	0.200	pass			
Kresoxim-methyl [¥]	< LOQ	0.40	0.200	pass		Malathion [¥]	< LOQ	0.20	0.100	pass			
Metalaxyl [¥]	< LOQ	0.20	0.100	pass		Methiocarb [¥]	< LOQ	0.20	0.100	pass			
Methomyl [¥]	< LOQ	0.40	0.200	pass		MGK-264 [¥]	< LOQ	0.20	0.100	pass			
Myclobutanil [¥]	< LOQ	0.20	0.100	pass		Naled [¥]	< LOQ	0.50	0.250	pass			
Oxamyl [¥]	< LOQ	1.0	0.500	pass		Paclobutrazole [¥]	< LOQ	0.40	0.200	pass			
Parathion-Methyl [¥]	< LOQ	0.20	0.100	pass		Permethrin [¥]	< LOQ	0.20	0.100	pass			
Phosmet [¥]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [¥]	< LOQ	2.0	1.00	pass			
Prallethrin [¥]	< LOQ	0.20	0.100	pass		Propiconazole [¥]	< LOQ	0.40	0.200	pass			
Propoxur [¥]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [¥]	< LOQ	1.0	0.500	pass			
Pyridaben [¥]	< LOQ	0.20	0.100	pass		Spinosad [¥]	< LOQ	0.20	0.100	pass			
Spiromesifen [¥]	< LOQ	0.20	0.100	pass		Spirotetramat [¥]	< LOQ	0.20	0.100	pass			
Spiroxamine [¥]	< LOQ	0.40	0.200	pass		Tebuconazole [¥]	< LOQ	0.40	0.200	pass			
Thiacloprid [¥]	< LOQ	0.20	0.100	pass		Thiamethoxam [¥]	< LOQ	0.20	0.100	pass			
Trifloxystrobin [¥]	< LOQ	0.20	0.100	pass									



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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	0.0653	0.200	mg/kg	0.0195	2210032	11/21/22 AOAC 2013.06 (mod.) ^p	pass	
Cadmium	0.0449	0.200	mg/kg	0.0195	2210032	11/21/22 AOAC 2013.06 (mod.) ^p	pass	
Lead	0.108	0.500	mg/kg	0.0195	2210032	11/21/22 AOAC 2013.06 (mod.) ^p	pass	
Mercury	< LOQ	0.100	mg/kg	0.00974	2210032	11/21/22 AOAC 2013.06 (mod.) ^p	pass	



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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓢ = TNI accredited analyte.

Units of Measure

mg/kg = Milligram per kilogram = parts per million (ppm)

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2209922			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.876	1.000	87.6	50.0	150
Acephate	0.000	< 0.250		0.936	1.000	93.6	60.0	120
Acequinocyl	0.000	< 1.000		3.508	4.000	87.7	40.0	160
Acetamiprid	0.000	< 0.100		0.379	0.400	94.8	60.0	120
Aldicarb	0.000	< 0.200		0.780	0.800	97.5	60.0	120
Azoxystrobin	0.000	< 0.100		0.319	0.400	79.7	60.0	120
Bifenazate	0.000	< 0.100		0.358	0.400	89.5	60.0	120
Bifenthrin	0.000	< 0.100		0.367	0.400	91.7	50.0	150
Boscalid	0.000	< 0.200		0.691	0.800	86.4	60.0	120
Carbaryl	0.000	< 0.100		0.384	0.400	95.9	60.0	120
Carbofuran	0.000	< 0.100		0.393	0.400	98.2	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.333	0.400	83.3	60.0	120
Chlorfenapyr	0.000	< 0.500		1.808	2.000	90.4	60.0	120
Chlorpyrifos	0.000	< 0.100		0.339	0.400	84.9	60.0	120
Clofentazine	0.000	< 0.100		0.042	0.400	10.5	60.0	120
Cyfluthrin	0.000	< 0.500		1.835	2.000	91.7	50.0	150
Cypermethrin	0.000	< 0.500		1.866	2.000	93.3	50.0	150
Daminozide	0.000	< 0.500		0.598	2.000	29.9	60.0	120
Diazinon	0.000	< 0.100		0.340	0.400	85.1	60.0	120
Dichlorvos	0.049	< 0.500		2.038	2.000	101.9	60.0	120
Dimethoate	0.000	< 0.100		0.387	0.400	96.7	60.0	120
Ethoprophos	0.000	< 0.100		0.369	0.400	92.2	60.0	120
Etofenprox	0.000	< 0.200		0.715	0.800	89.4	50.0	150
Etoxazole	0.000	< 0.100		0.334	0.400	83.4	60.0	120
Fenoxycarb	0.000	< 0.100		0.349	0.400	87.2	60.0	120
Fenpyroximate	0.000	< 0.200		0.726	0.800	90.7	60.0	120
Fipronil	0.000	< 0.200		0.675	0.800	84.3	60.0	120
Fonicamid	0.000	< 0.250		1.109	1.000	110.9	60.0	120
Fludioxonil	0.000	< 0.200		0.731	0.800	91.4	50.0	150
Hexythiazox	0.000	< 0.250		0.828	1.000	82.8	60.0	120
Imazalil	0.000	< 0.100		0.344	0.400	86.1	60.0	120
Imidacloprid	0.000	< 0.200		0.763	0.800	95.3	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.691	0.800	86.4	60.0	120
Malathion	0.000	< 0.100		0.350	0.400	87.4	60.0	120
Metlaxyl	0.000	< 0.100		0.391	0.400	97.7	60.0	120
Methiocarb	0.000	< 0.100		0.379	0.400	94.6	60.0	120
Methomyl	0.000	< 0.200		0.824	0.800	103.1	60.0	120
MGK-264	0.000	< 0.100		0.340	0.400	84.9	50.0	150
Myclobutanil	0.000	< 0.100		0.346	0.400	86.4	60.0	120
Naled	0.000	< 0.250		0.720	1.000	72.0	50.0	150
Oxamyl	0.000	< 0.500		1.853	2.000	92.7	60.0	120
Paclobotrazole	0.000	< 0.200		0.694	0.800	86.7	60.0	120
Parathion-Methyl	0.000	< 0.200		0.866	0.800	108.3	50.0	150
Permethrin	0.000	< 0.100		0.366	0.400	91.5	50.0	150
Phosmet	0.000	< 0.100		0.362	0.400	90.5	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.635	2.000	81.7	60.0	120
Prallethrin	0.000	< 0.100		0.334	0.400	83.5	60.0	120
Propiconazole	0.000	< 0.200		0.687	0.800	85.9	60.0	120
Propoxur	0.000	< 0.100		0.388	0.400	97.1	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.360	0.413	87.1	60.0	120
Pyridaben	0.000	< 0.100		0.347	0.400	86.8	50.0	150
Spirosad	0.000	< 0.100		0.302	0.388	77.8	50.0	150
Spiromesifen	0.000	< 0.100		0.347	0.400	86.7	60.0	120
Spirotetramat	0.000	< 0.100		0.323	0.400	80.7	60.0	120
Spiroxamine	0.000	< 0.200		0.663	0.800	82.9	60.0	120
Tebuconazole	0.000	< 0.200		0.694	0.800	86.7	60.0	120
Thiacloprid	0.000	< 0.100		0.374	0.400	93.4	60.0	120
Thiamethoxam	0.000	< 0.100		0.413	0.400	103.4	60.0	120
Trifloxystrobin	0.000	< 0.100		0.321	0.400	80.2	60.0	120

Q6

Q6



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2209922			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-014012-0006								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.865	0.937	1.000	8.0%	< 30	86.5%	93.7%	50 - 150	
Acephate	0.000	0.953	0.975	1.000	2.3%	< 30	95.3%	97.5%	50 - 150	
Acequinocyl	0.000	2.038	2.086	4.000	2.3%	< 30	51.0%	52.1%	50 - 150	
Acetamiprid	0.000	0.396	0.392	0.400	0.9%	< 30	98.9%	98.0%	50 - 150	
Aldicarb	0.000	0.810	0.818	0.800	1.0%	< 30	101.2%	102.3%	50 - 150	
Azoxystrobin	0.007	0.313	0.317	0.400	1.3%	< 30	76.4%	77.4%	50 - 150	
Bifenazate	0.000	0.384	0.379	0.400	1.4%	< 30	96.0%	94.7%	50 - 150	
Bifenthrin	0.000	0.198	0.195	0.400	1.5%	< 30	49.6%	48.8%	50 - 150	Q
Boscalid	0.000	0.620	0.665	0.800	6.9%	< 30	77.5%	83.1%	50 - 150	
Carbaryl	0.000	0.342	0.337	0.400	1.5%	< 30	85.5%	84.2%	50 - 150	
Carbofuran	0.000	0.369	0.365	0.400	1.1%	< 30	92.3%	91.3%	50 - 150	
Chlorantraniliprole	0.000	0.346	0.338	0.400	2.1%	< 30	86.4%	84.6%	50 - 150	
Chlorfenapyr	0.000	1.264	1.114	2.000	12.6%	< 30	63.2%	55.7%	50 - 150	
Chlorpyrifos	0.000	0.200	0.179	0.400	11.1%	< 30	50.0%	44.7%	50 - 150	Q
Clofentezine	0.000	0.097	0.103	0.400	5.5%	< 30	24.3%	25.6%	50 - 150	Q
Cyfluthrin	0.055	1.319	1.266	2.000	4.3%	< 30	63.2%	60.5%	30 - 150	
Cypermethrin	0.000	1.279	1.260	2.000	1.5%	< 30	64.0%	63.0%	50 - 150	
Daminozide	0.000	0.784	0.773	2.000	1.4%	< 30	39.2%	38.6%	30 - 150	
Diazinon	0.000	0.222	0.220	0.400	1.2%	< 30	55.6%	54.9%	50 - 150	
Dichlorvos	0.000	1.852	1.935	2.000	4.4%	< 30	92.6%	96.8%	50 - 150	
Dimethoate	0.000	0.366	0.361	0.400	1.3%	< 30	91.4%	90.2%	50 - 150	
Ethoprophos	0.000	0.335	0.353	0.400	5.3%	< 30	83.8%	88.3%	50 - 150	
Etofenprox	0.000	0.456	0.460	0.800	0.9%	< 30	57.0%	57.5%	50 - 150	
Etoxazole	0.000	0.242	0.237	0.400	2.1%	< 30	60.6%	59.3%	50 - 150	
Fenoxycarb	0.000	0.346	0.359	0.400	3.5%	< 30	86.6%	89.7%	50 - 150	
Fenpyroximate	0.000	0.466	0.467	0.800	0.2%	< 30	58.3%	58.4%	50 - 150	
Fipronil	0.000	0.442	0.441	0.800	0.3%	< 30	55.2%	55.1%	50 - 150	
Flonicamid	0.000	0.969	0.995	1.000	2.7%	< 30	96.9%	99.5%	50 - 150	
Fludioxonil	0.000	0.823	0.796	0.800	3.3%	< 30	102.9%	99.5%	50 - 150	
Hexythiazox	0.000	0.694	0.670	1.000	3.5%	< 30	69.4%	67.0%	50 - 150	
Imazalil	0.000	0.373	0.376	0.400	0.6%	< 30	93.4%	93.9%	50 - 150	
Imidacloprid	0.000	0.783	0.771	0.800	1.5%	< 30	97.9%	96.4%	50 - 150	
Kresoxim-methyl	0.000	0.664	0.660	0.800	0.6%	< 30	83.0%	82.5%	50 - 150	
Malathion	0.000	0.348	0.361	0.400	3.5%	< 30	87.0%	90.1%	50 - 150	
Metaxalyl	0.000	0.369	0.378	0.400	2.3%	< 30	92.3%	94.5%	50 - 150	
Methiocarb	0.000	0.362	0.359	0.400	0.9%	< 30	90.5%	89.7%	50 - 150	
Methomyl	0.000	0.800	0.814	0.800	1.8%	< 30	100.0%	101.7%	50 - 150	
MGK-264	0.000	0.361	0.361	0.400	0.0%	< 30	90.2%	90.2%	50 - 150	
Myclobutanil	0.000	0.280	0.279	0.400	0.3%	< 30	70.1%	69.9%	50 - 150	
Naled	0.000	0.724	0.736	1.000	1.7%	< 30	72.4%	73.6%	50 - 150	
Oxamyl	0.000	1.923	1.985	2.000	3.2%	< 30	96.1%	99.3%	50 - 150	
Paclotrazole	0.000	0.714	0.724	0.800	1.5%	< 30	89.2%	90.6%	50 - 150	
Parathion-Methyl	0.000	0.454	0.431	0.800	5.0%	< 30	56.7%	53.9%	30 - 150	
Permethrin	0.000	0.274	0.277	0.400	1.0%	< 30	68.4%	69.1%	50 - 150	
Phosmet	0.000	0.345	0.352	0.400	2.2%	< 30	86.2%	88.1%	50 - 150	
Piperonyl butoxide	0.000	1.226	1.255	2.000	2.3%	< 30	61.3%	62.7%	50 - 150	
Prallethrin	0.000	0.448	0.455	0.400	1.4%	< 30	112.1%	113.7%	50 - 150	
Propiconazole	0.083	0.623	0.621	0.800	0.4%	< 30	67.4%	67.2%	50 - 150	
Propoxur	0.000	0.379	0.383	0.400	1.2%	< 30	94.7%	95.9%	50 - 150	
Pyrethrin (Summe)	0.000	0.356	0.364	0.413	2.3%	< 30	86.1%	88.1%	50 - 150	
Pyridaben	0.000	0.287	0.283	0.400	1.7%	< 30	71.8%	70.6%	50 - 150	
Spinosad	0.000	0.250	0.248	0.388	0.7%	< 30	64.5%	64.0%	50 - 150	
Spiromesifen	0.000	0.317	0.320	0.400	1.0%	< 30	79.2%	80.0%	50 - 150	
Spirotetramat	0.000	0.493	0.498	0.400	1.1%	< 30	123.2%	124.6%	50 - 150	
Spiroxamine	0.000	0.741	0.764	0.800	3.0%	< 30	92.7%	95.5%	50 - 150	
Tebuconazole	0.000	0.624	0.660	0.800	5.7%	< 30	77.9%	82.5%	50 - 150	
Thiacloprid	0.000	0.357	0.355	0.400	0.5%	< 30	89.2%	88.7%	50 - 150	
Thiamethoxam	0.000	0.385	0.425	0.400	9.9%	< 30	96.3%	106.3%	50 - 150	
Trifloxystrobin	0.000	0.155	0.140	0.400	10.1%	< 30	38.7%	35.0%	50 - 150	Q



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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.