

Client/Code

Canadian Organic QAQC
195 Riverside Ave
PO Box 947
Salmo, BC
V0G 1Z0

TEL: 250-777-2857
info@canadianorganic.org

Date 30Jan18 10:57a
Source Essential Oil
Type of Sample oil
No. of Samples 1

No. W138186

Comments Arrival temp.: 22.00
PH: 250-777-2857

Sample: Salt Spring Naturals Inc XK9239280 26Jan18

PESTICIDE ANALYSIS SCREEN & TARGET COMPOUNDS

Test Compound Groups*	1	Lab		
	Sample	Blank	Units	Compounds Found
Organophosphates	ND	<0.10	ug/g	
Organochlorines	ND	<0.10	ug/g	
Carbamates	ND	<0.10	ug/g	
Organonitrogen	ND	<0.10	ug/g	
Non-Ionic Herbicides	ND	<0.10	ug/g	
Ionic Herbicides	ND	<0.10	ug/g	
Botanicals	ND	<0.10	ug/g	
Carbamates	ND	0.2-37	ng/g	
Other	ND	0.2-37	ng/g	
-Pyrethroids	ND	0.2-37	ng/g	
-Avermectins	ND	0.2-37	ng/g	

* see attached document for full list of compounds in analysis

** Trace = presence & identity verified, value below LOQ (Limit of Quantitation)

Reference Standard Recovery

Azoxystrobin	108	%	a-BHC	105	%
Carbofuran	101	%	Pirimicarb	107	%
Malathion	109	%	2,4 DDE	110	%
Myclobutanil	96.1	%	Cypermethrin	110	%
Permethrin	106	%	Chlorpyrifos	96.0	%

Method 1: Analysis by GC/MS-MS. Data is analyzed using Agilent RTL Pesticide and Endocrine Disruptor Library with DRS (Deconvolution Reporting Software). The software uses the National Institute of Standards and Technology (NIST) Mass Spectral Search Program with NIST 2011 MS Library.

Detection of compounds in the library are 10 ng/g (ppb) level or better. Procedure Ref. AOAC Method 2007.01; USP

Method 2: Analysis is carried out by using UPLC-ESI-MS/MS UV.

Sample is solvent extracted then cleaned using dispersive SPE (QuEChERS) methods. Detection of compounds are 0.2-37 ng/g (ppb) level or better. Procedure Ref. AOAC Method 2007.01; USP

* list of total compounds attached

Notes: Some of the compounds analyzed in this method may be naturally occurring & have biological activity. These compounds may not be regulated.

ND = none detected

n/a = not applicable

Acceptance Criteria: none present or are on Health Canada Approved List

H. Hartmann

Sr. Analytical Chemist



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Date 30Jan18 10:57a
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No. W138186 pg2

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Sample: Salt Spring Naturals Inc XK9239280 26Jan18

ELEMENTS	SAMPLE	UNITS	Acceptance Criteria		Dietary	Reference	
			Ingestion	Topical	RDA	UL	Units
1) Aluminium	Al	22.4	ug/g				
2) Antimony	Sb	0.114	ug/g	---	5 ug/g		
3) Arsenic	As	<0.010	ug/g	9.80 ug *	3 ug/g		
4) Barium	Ba	<0.009	ug/g				
5) Beryllium	Be	<0.003	ug/g				
6) Boron	B	<0.050	ug/g		--	20	mg
7) Cadmium	Cd	<0.001	ug/g	6.30 ug *	3 ug/g		
8) Calcium	Ca	139	ug/g		1000	2500	mg
9) Chromium	Cr	<0.002	ug/g		35	--	ug
10) Cobalt	Co	<0.020	ug/g				
11) Copper	Cu	0.379	ug/g		900	10000	ug
12) Gold	Au	<0.100	ug/g				
13) Iron	Fe	<0.010	ug/g		8	45	mg
14) Lanthanum	La	<0.020	ug/g				
15) Lead	Pb	0.173	ug/g	20.9 ug *	10ug/g		
16) Magnesium	Mg	17.6	ug/g		400	350	mg
17) Manganese	Mn	<0.004	ug/g		2.3	11	mg
18) Mercury	Hg	<0.001	ug/g	20.9 ug *	3 ug/g		
19) Molybdenum	Mo	0.284	ug/g		45	2000	ug
20) Nickel	Ni	<0.050	ug/g		--	1.0	mg
21) Phosphorus	P	0.947	ug/g		700	4000	mg
22) Potassium	K	<0.030	ug/g		4700	--	mg
23) Scandium	Sc	<0.050	ug/g				
24) Selenium	Se	<0.010	ug/g		55	400	ug
25) Silicon	Si	36.5	ug/g		--	ND	
26) Silver	Ag	<0.100	ug/g				
27) Sodium	Na	297	ug/g		1500	2300	mg
28) Strontium	Sr	0.663	ug/g				
29) Tin	Sn	0.284	ug/g				
30) Titanium	Ti	<0.010	ug/g				
31) Tungsten	W	<0.050	ug/g				
32) Vanadium	V	<0.010	ug/g		--	1.8	mg
33) Zinc	Zn	<0.010	ug/g		11	40	mg

RDA = recommended daily allowance

mg = milligrams

UL = tolerable upper intake level

ug = micrograms (1 ug/Kg = 0.001 ug/g)

* based on ug/Kg body weight/day assuming an average 70 kilogram adult

ND = not determined

Food & Nutrition Board, Institute of Medicine, National Academies, 2004

USDA Nutrient database for Std. Reference SR14 Nov 2001.

HC Quality of Natural Health Products Guide. Section 3 Purity. May 2013

Method: Pharmacopoeia Internationalis; USP



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