



Analysis Report

GU19-06877.001

Client: Agrowcultural Organics
12-16715 Yonge St
Newmarket, ON L3X 1X4

Job Number: GU19-06877
Received: 25-Nov-2019
Completed: 25-Nov-2019

Submitted for: Agrowcultural Organics - Orchid Rx...B
Client Sample ID: Orchid Rx

Analysis	Results (unit)		Standardized Analysis	
pH	7.71		-- --	-- --
EC (Total Salt)	0.50 (mmhos/cm)		2.0 (mmhos/cm)	-- --
Nitrate Nitrogen	10.00 (ppm)	0.71 (mmol/L)	58.8 (ppm)	4.2 (mmol/L)
Chloride	8.00 (ppm)	0.23 (mmol/L)	47.0 (ppm)	1.4 (mmol/L)
Bicarbonate	149.45 (ppm)	2.45 (mmol/L)	878.7 (ppm)	14.4 (mmol/L)
Total Hardness	42.30 (ppm)		248.7 (ppm)	
Phosphorus	5.92 (ppm)	0.19 (mmol/L)	34.8 (ppm)	1.1 (mmol/L)
Potassium	19.95 (ppm)	0.51 (mmol/L)	117.3 (ppm)	3.0 (mmol/L)
Calcium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Magnesium	3.85 (ppm)	0.16 (mmol/L)	22.6 (ppm)	0.9 (mmol/L)
Sulphate	188.44 (ppm)	1.96 (mmol/L)	1,108.0 (ppm)	11.5 (mmol/L)
Sodium	36.75 (ppm)	1.60 (mmol/L)	216.1 (ppm)	9.4 (mmol/L)
Zinc	3.67 (ppm)	56.15 (µmol/L)	21.6 (ppm)	330.1 (µmol/L)
Manganese	5.61 (ppm)	102.03 (µmol/L)	33.0 (ppm)	599.9 (µmol/L)
Copper	0.41 (ppm)	6.45 (µmol/L)	2.4 (ppm)	37.9 (µmol/L)
Iron	9.40 (ppm)	168.28 (µmol/L)	55.3 (ppm)	989.4 (µmol/L)
Boron	26.59 (ppm)	2461.91 (µmol/L)	156.3 (ppm)	14,475.1 (µmol/L)
Molybdenum	0.22 (ppm)	2.33 (µmol/L)	1.3 (ppm)	13.7 (µmol/L)
Silicon	<1.00 (ppm)	<35.60 (µmol/L)	-- --	-- --
Anions	7.51 (meq/L)		-- --	
Cations	4.49 (meq/L)		-- --	
Ammonium Nitrogen	29.10 (ppm)	2.07 (mmol/L)	171.1 (ppm)	12.2 (mmol/L)

Signed and dated in Guelph, ON
On 25-Nov-2019

For and on behalf of SGS Canada Inc., Agriculture and Food

David Boyle, PhD
Senior Chemist

Report File Reference Number: 0000125111

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Analysis Report

GU19-06877.002

Client: Agrowcultural Organics
12-16715 Yonge St
Newmarket, ON L3X 1X4

Job Number: GU19-06877
Received: 25-Nov-2019
Completed: 25-Nov-2019

Submitted for: Agrowcultural Organics - Orchid Rx...B
Client Sample ID: Plant Rx

Analysis	Results (unit)		Standardized Analysis	
pH	7.99		-- --	-- --
EC (Total Salt)	0.64 (mmhos/cm)		2.0 (mmhos/cm)	-- --
Nitrate Nitrogen	23.00 (ppm)	1.63 (mmol/L)	99.7 (ppm)	7.1 (mmol/L)
Chloride	10.00 (ppm)	0.28 (mmol/L)	43.4 (ppm)	1.2 (mmol/L)
Bicarbonate	153.72 (ppm)	2.52 (mmol/L)	666.6 (ppm)	10.9 (mmol/L)
Total Hardness	31.53 (ppm)		136.7 (ppm)	
Phosphorus	2.95 (ppm)	0.10 (mmol/L)	12.8 (ppm)	0.4 (mmol/L)
Potassium	14.42 (ppm)	0.37 (mmol/L)	62.5 (ppm)	1.6 (mmol/L)
Calcium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Magnesium	2.93 (ppm)	0.12 (mmol/L)	12.7 (ppm)	0.5 (mmol/L)
Sulphate	223.22 (ppm)	2.32 (mmol/L)	968.0 (ppm)	10.1 (mmol/L)
Sodium	41.10 (ppm)	1.79 (mmol/L)	178.2 (ppm)	7.8 (mmol/L)
Zinc	2.60 (ppm)	39.78 (µmol/L)	11.3 (ppm)	172.5 (µmol/L)
Manganese	3.32 (ppm)	60.42 (µmol/L)	14.4 (ppm)	262.0 (µmol/L)
Copper	0.43 (ppm)	6.72 (µmol/L)	1.9 (ppm)	29.1 (µmol/L)
Iron	8.99 (ppm)	160.89 (µmol/L)	39.0 (ppm)	697.7 (µmol/L)
Boron	27.63 (ppm)	2558.42 (µmol/L)	119.8 (ppm)	11,094.2 (µmol/L)
Molybdenum	0.32 (ppm)	3.36 (µmol/L)	1.4 (ppm)	14.6 (µmol/L)
Silicon	<1.00 (ppm)	<35.60 (µmol/L)	-- --	-- --
Anions	9.19 (meq/L)		-- --	
Cations	5.49 (meq/L)		-- --	
Ammonium Nitrogen	43.50 (ppm)	3.09 (mmol/L)	188.6 (ppm)	13.4 (mmol/L)

Signed and dated in Guelph, ON
On 25-Nov-2019

For and on behalf of SGS Canada Inc., Agriculture and Food

David Boyle, PhD
Senior Chemist

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Analysis Report

GU19-06877.003

Client: Agrowcultural Organics
12-16715 Yonge St
Newmarket, ON L3X 1X4

Job Number: GU19-06877
Received: 25-Nov-2019
Completed: 25-Nov-2019

Submitted for: Agrowcultural Organics - Orchid Rx...B
Client Sample ID: Garden Jardin Rx

Analysis	Results (unit)		Standardized Analysis	
pH	7.36		-- --	-- --
EC (Total Salt)	0.48 (mmhos/cm)		2.0 (mmhos/cm)	-- --
Nitrate Nitrogen	7.00 (ppm)	0.50 (mmol/L)	45.2 (ppm)	3.2 (mmol/L)
Chloride	7.00 (ppm)	0.20 (mmol/L)	45.2 (ppm)	1.3 (mmol/L)
Bicarbonate	104.31 (ppm)	1.71 (mmol/L)	673.2 (ppm)	11.0 (mmol/L)
Total Hardness	40.13 (ppm)		259.0 (ppm)	
Phosphorus	5.07 (ppm)	0.16 (mmol/L)	32.7 (ppm)	1.0 (mmol/L)
Potassium	7.50 (ppm)	0.19 (mmol/L)	48.4 (ppm)	1.2 (mmol/L)
Calcium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Magnesium	3.66 (ppm)	0.15 (mmol/L)	23.6 (ppm)	1.0 (mmol/L)
Sulphate	174.84 (ppm)	1.82 (mmol/L)	1,128.3 (ppm)	11.7 (mmol/L)
Sodium	39.10 (ppm)	1.70 (mmol/L)	252.3 (ppm)	11.0 (mmol/L)
Zinc	3.37 (ppm)	51.61 (µmol/L)	21.7 (ppm)	333.1 (µmol/L)
Manganese	5.40 (ppm)	98.27 (µmol/L)	34.8 (ppm)	634.2 (µmol/L)
Copper	0.51 (ppm)	8.03 (µmol/L)	3.3 (ppm)	51.8 (µmol/L)
Iron	9.34 (ppm)	167.23 (µmol/L)	60.3 (ppm)	1,079.2 (µmol/L)
Boron	28.58 (ppm)	2646.07 (µmol/L)	184.4 (ppm)	17,076.3 (µmol/L)
Molybdenum	0.28 (ppm)	2.87 (µmol/L)	1.8 (ppm)	18.5 (µmol/L)
Silicon	<1.00 (ppm)	<35.60 (µmol/L)	-- --	-- --
Anions	6.21 (meq/L)		-- --	
Cations	4.31 (meq/L)		-- --	
Ammonium Nitrogen	29.80 (ppm)	2.12 (mmol/L)	192.3 (ppm)	13.7 (mmol/L)

Signed and dated in Guelph, ON
On 25-Nov-2019

For and on behalf of SGS Canada Inc., Agriculture and Food

David Boyle, PhD
Senior Chemist

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Analysis Report

GU19-06877.004

Client: Agrowcultural Organics
12-16715 Yonge St
Newmarket, ON L3X 1X4

Job Number: GU19-06877
Received: 25-Nov-2019
Completed: 25-Nov-2019

Submitted for: Agrowcultural Organics - Orchid Rx...B

Client Sample ID: Cannabis Rx

Analysis	Results (unit)		Standardized Analysis	
pH	7.03		-- --	-- --
EC (Total Salt)	0.93 (mmhos/cm)		2.0 (mmhos/cm)	-- --
Nitrate Nitrogen	17.00 (ppm)	1.21 (mmol/L)	42.9 (ppm)	3.1 (mmol/L)
Chloride	10.00 (ppm)	0.28 (mmol/L)	25.2 (ppm)	0.7 (mmol/L)
Bicarbonate	105.23 (ppm)	1.73 (mmol/L)	265.4 (ppm)	4.4 (mmol/L)
Total Hardness	190.30 (ppm)		479.9 (ppm)	
Phosphorus	7.53 (ppm)	0.24 (mmol/L)	19.0 (ppm)	0.6 (mmol/L)
Potassium	11.46 (ppm)	0.29 (mmol/L)	28.9 (ppm)	0.7 (mmol/L)
Calcium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Magnesium	27.76 (ppm)	1.15 (mmol/L)	70.0 (ppm)	2.9 (mmol/L)
Sulphate	402.34 (ppm)	4.18 (mmol/L)	1,014.6 (ppm)	10.5 (mmol/L)
Sodium	31.48 (ppm)	1.37 (mmol/L)	79.4 (ppm)	3.5 (mmol/L)
Zinc	5.71 (ppm)	87.39 (µmol/L)	14.4 (ppm)	220.4 (µmol/L)
Manganese	9.38 (ppm)	170.79 (µmol/L)	23.7 (ppm)	430.7 (µmol/L)
Copper	0.05 (ppm)	0.77 (µmol/L)	0.1 (ppm)	1.9 (µmol/L)
Iron	32.00 (ppm)	572.87 (µmol/L)	80.7 (ppm)	1,444.7 (µmol/L)
Boron	74.57 (ppm)	6905.02 (µmol/L)	188.1 (ppm)	17,413.4 (µmol/L)
Molybdenum	0.47 (ppm)	4.94 (µmol/L)	1.2 (ppm)	12.5 (µmol/L)
Silicon	<1.00 (ppm)	<35.60 (µmol/L)	-- --	-- --
Anions	11.85 (meq/L)		-- --	
Cations	7.43 (meq/L)		-- --	
Ammonium Nitrogen	49.00 (ppm)	3.48 (mmol/L)	123.6 (ppm)	8.8 (mmol/L)

Signed and dated in Guelph, ON
On 25-Nov-2019

For and on behalf of SGS Canada Inc., Agriculture and Food

David Boyle, PhD
Senior Chemist

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Analysis Report

GU19-06877.005

Client: Agrowcultural Organics
12-16715 Yonge St
Newmarket, ON L3X 1X4

Job Number: GU19-06877
Received: 25-Nov-2019
Completed: 25-Nov-2019

Submitted for: Agrowcultural Organics - Orchid Rx...B
Client Sample ID: A

Analysis	Results (unit)		Standardized Analysis	
pH	7.20		-- --	-- --
EC (Total Salt)	0.34 (mmhos/cm)		2.0 (mmhos/cm)	-- --
Nitrate Nitrogen	4.00 (ppm)	0.28 (mmol/L)	2,420.9 (ppm)	169.5 (mmol/L)
Chloride	35.00 (ppm)	0.99 (mmol/L)	21,183.2 (ppm)	599.2 (mmol/L)
Bicarbonate	147.32 (ppm)	2.42 (mmol/L)	89,163.3 (ppm)	1,464.7 (mmol/L)
Total Hardness	<0.00 (ppm)		-- --	-- --
Phosphorus	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Potassium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Calcium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Magnesium	<1.00 (ppm)	<0.04 (mmol/L)	-- --	-- --
Sulphate	22.91 (ppm)	0.24 (mmol/L)	13,865.9 (ppm)	145.3 (mmol/L)
Sodium	77.40 (ppm)	3.37 (mmol/L)	46,845.2 (ppm)	2,039.6 (mmol/L)
Zinc	<0.01 (ppm)	<0.15 (µmol/L)	-- --	-- --
Manganese	<0.01 (ppm)	<0.18 (µmol/L)	-- --	-- --
Copper	<0.01 (ppm)	<0.16 (µmol/L)	-- --	-- --
Iron	<0.01 (ppm)	<0.18 (µmol/L)	-- --	-- --
Boron	0.08 (ppm)	7.41 (µmol/L)	48.4 (ppm)	4,484.8 (µmol/L)
Molybdenum	0.06 (ppm)	0.65 (µmol/L)	36.3 (ppm)	393.4 (µmol/L)
Silicon	<1.00 (ppm)	<35.60 (µmol/L)	-- --	-- --
Anions	4.18 (meq/L)		-- --	
Cations	3.37 (meq/L)		-- --	
Ammonium Nitrogen	<0.50 (ppm)	<0.04 (mmol/L)	-- --	-- --

Signed and dated in Guelph, ON
On 25-Nov-2019

For and on behalf of SGS Canada Inc., Agriculture and Food

David Boyle, PhD
Senior Chemist

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Analysis Report

GU19-06877.006

Client: Agrowcultural Organics
12-16715 Yonge St
Newmarket, ON L3X 1X4

Job Number: GU19-06877
Received: 25-Nov-2019
Completed: 25-Nov-2019

Submitted for: Agrowcultural Organics - Orchid Rx...B
Client Sample ID: B

Analysis	Results (unit)		Standardized Analysis	
pH	7.47		-- --	-- --
EC (Total Salt)	0.32 (mmhos/cm)		2.0 (mmhos/cm)	-- --
Nitrate Nitrogen	7.00 (ppm)	0.50 (mmol/L)	-- --	
Chloride	35.00 (ppm)	0.99 (mmol/L)	-- --	
Bicarbonate	158.60 (ppm)	2.60 (mmol/L)	-- --	
Total Hardness	<0.00 (ppm)		-- --	-- --
Phosphorus	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Potassium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Calcium	<1.00 (ppm)	<0.03 (mmol/L)	-- --	-- --
Magnesium	<1.00 (ppm)	<0.04 (mmol/L)	-- --	-- --
Sulphate	24.68 (ppm)	0.26 (mmol/L)	-- --	
Sodium	77.76 (ppm)	3.38 (mmol/L)	-- --	
Zinc	0.03 (ppm)	0.45 (µmol/L)	-- --	
Manganese	<0.01 (ppm)	<0.18 (µmol/L)	-- --	-- --
Copper	<0.01 (ppm)	<0.16 (µmol/L)	-- --	-- --
Iron	0.01 (ppm)	0.19 (µmol/L)	-- --	
Boron	0.05 (ppm)	4.49 (µmol/L)	-- --	
Molybdenum	<0.01 (ppm)	<0.10 (µmol/L)	-- --	-- --
Silicon	<1.00 (ppm)	<35.60 (µmol/L)	-- --	-- --
Anions	4.61 (meq/L)		-- --	
Cations	3.38 (meq/L)		-- --	
Ammonium Nitrogen	<0.50 (ppm)	<0.04 (mmol/L)	-- --	-- --

Signed and dated in Guelph, ON
On 25-Nov-2019

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