



CP MICROBIOLOGY & ANALYTICAL LABS

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REPORT

DATE: 08.08.18

CPMIC REF: 18070006

CLIENT REF:

CLIENT: Russell Calder

Calder Permaculture

PO Box 280, Nyah, Vic 3594

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russellcalder@bigpond.com

1. Microbiological analyses on stimulant:

Total count (cfu/ml).....	800,000
Filamentous actinomycetes (cfu/ml).....	8,000
Yeasts (cfu/ml)	100
Filamentous fungi (cfu/ml)	< 100
<i>Escherichia coli</i> (MPN/100 ml).....	400 (= 0.4/ml)
<i>Salmonella</i> (Presence in 50 ml).....	ABSENT
<i>Listeria</i> (Presence in 50 ml).....	ABSENT

cfu – colony forming units

MPN – Most Probable Number

2. Chemical analyses (EAL LABORATORIES, SCU, Lismore)

LIQUID FERTILISER ANALYSIS REPORT

Sample supplied by CP Microbiology and Analytical Laboratories on 26/07/2018. Lab Job No.H2589

Analysis requested by Chris Panter. Your Job: Liquids

PO BOX 5201 BRANDON PARK VIC 3150

				Sample ID:	18070006
				Sample Type:	Liquid
				Client:	C. Panter
<i>Nutrient</i>		<i>Unit</i>	<i>Method</i>	<i>H2589/1</i>	
Nitrogen	N	mg/kg w/w	**LECO Trumac Analyser - Inhouse S4a	240	
Phosphorus	P	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<100	
Potassium	K	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	579	
Sulfur	S	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<100	
Calcium	Ca	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	116	
Magnesium	Mg	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<100	
Sodium	Na	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	237	
Copper	Cu	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<1	
Zinc	Zn	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<1	
Manganese	Mn	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<1	
Iron	Fe	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<50	
Boron	B	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<5	
Molybdenum	Mo	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<0.2	
Cobalt	Co	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<0.05	
Silicon	Si	mg/kg w/w	**Nitric/Hydrochloric Acid digest - APHA 3125 ICPMS	<50	
pH		na	**Rayment & Lyons 2011 - 4A1 (1:5 Water)	7.6	
Electrical Conductivity		dS/m	**Rayment & Lyons 2011 - 3A1 (1:5 Water)	3.0	
Total Dissolved Salts		mg/L	**Calculation - EC x 680	2,020	

Notes:

1. All analysis conducted on sample as supplied. (Samples are lightly crushed as required)
2. Samples are digested on a hotblock digester using Nitric acid and Hydrochloric acid then read on the ICP
(EPA3050B and APHA 3125 ICPMS or ICP-OES for Sulfur).
3. mg/kg = ppm; 1% = 10,000ppm
4. Conversion from w/w to w/v multiply the result by the Specific Gravity.
5. Analysis conducted between sample arrival date and reporting date.
6. ** NATA accreditation does not cover the performance of this service.
7. This report is not to be reproduced except in full.

*Checked: Kris Saville
Agricultural Co-Ordinator*

KS

Christopher Panter